

LCD Projection TV



Operating Instructions

GB

- ⚠ Before operating the TV, please read the “Safety Information” section of this manual.
Retain this manual for future reference.

KF-E50A10
KF-E42A10

GRAND
WEGA



Introduction

Thank you for choosing this Sony product.
Before operating the TV, please read this manual thoroughly and retain it for future reference.

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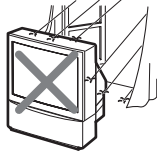
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Safety Information

To prevent fire or shock hazard, do not expose the LCD projection TV to rain or moisture. Dangerously high voltages are present inside the LCD projection TV. Do not open the cabinet. Refer servicing to qualified personnel only.

For general safety:

- Do not expose the LCD projection TV to rain or moisture.



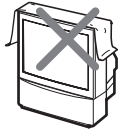
- Do not open the rear cover.



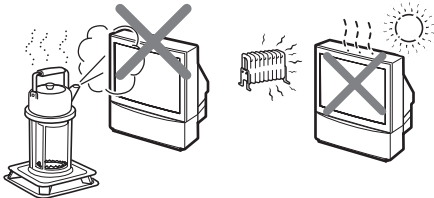
- This set should be operated only from the type of power source indicated on the serial/model plate. If you are not sure of the type of electrical power supplied to your home, consult your dealer or local power company. For those sets designed to operate from battery power, refer to the operating instructions.

For safe installation:

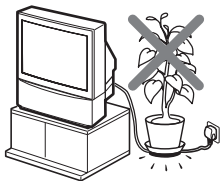
- Never cover the slots and openings with a cloth or other materials.



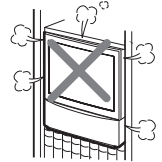
- Do not block the ventilation openings.
- Do not use power-line operated sets near water — for example, near a bathtub, washbowl, kitchen sink, swimming pool, etc.
- Do not install the LCD projection TV in hot, humid or excessively dusty places.



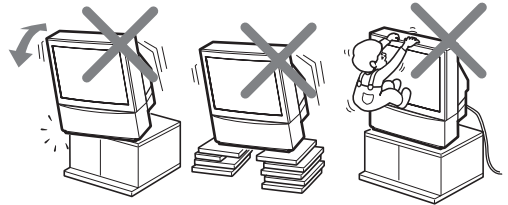
- Do not allow anything to rest on or roll over the power cord, and do not place the set where the power cord is subject to wear or abuse.
- Do not install the LCD projection TV where it may be exposed to mechanical vibrations.



- Avoid operating the LCD projection TV at temperatures below 5°C.
- If the LCD projection TV is transported directly from a cold to a warm location, or if the room temperature has changed suddenly, the picture may be blurred or show poor color. This is because moisture has condensed on the mirror or lenses inside. If this happens, let the moisture evaporate before using the LCD projection TV.
- If direct sunlight or other strong illumination shines on the screen, part of the screen may appear white due to reflections from behind the screen. This is a structural property of the LCD projection TV. Do not expose the screen to direct illumination or sunlight.
- Do not install the appliance in a confined space, such as a bookcase or built-in cabinet.



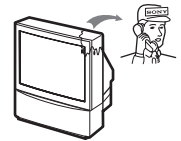
- Do not place the set on an unstable cart, stand, table or shelf. The set may fall, causing serious injury to a child or an adult and serious damage to the set. Use only a cart or stand recommended by the manufacturer for the specific model of LCD projection TV. An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.



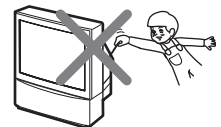
- When the set exhibits a distinct change in performance, it indicates a need for service.

For safe operations:

- Do not operate the LCD projection TV on anything but 220-240 V AC, 50/60 Hz.
- Do not operate the LCD projection TV if any liquid or solid object falls in it — have it checked immediately.

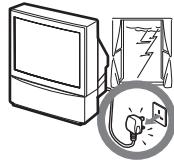


- Never push objects of any kind into the set through the cabinet slots as they may touch dangerous voltage points or short out parts that could result in a fire or electric shock. Never spill liquid of any kind on the set.
- Leave enough space between the LCD projection TV or furniture and an outlet so that you can plug in/out easily.

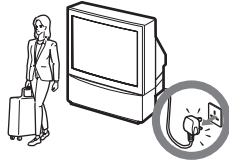


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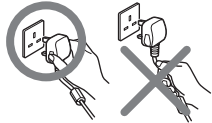
- Unplug the AC power cord during lightning storm.



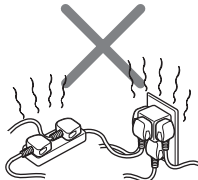
- Do not keep the LCD projection TV plugged in if you are not going to use it for several days. Even if your LCD projection TV is turned off, it is still connected to AC power when plugged into an outlet.



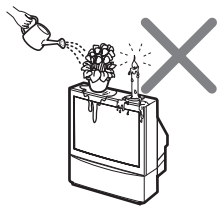
- Do not pull the power cord to disconnect the LCD projection TV. Pull it out by the plug.



- Do not plug in too many appliances to the same power jack. Do not damage the power cord.



- Do not place any objects on the LCD projection TV. The apparatus shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the apparatus.

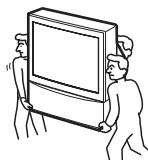


- To prevent fire, keep inflammable objects or naked lights (e.g. candles) away from the LCD projection TV.
- If a snapping or popping sound from a TV set is continuous or frequent while the TV is operating, unplug the TV and consult your dealer or service technician. It is normal for some TV sets to make occasional snapping or popping sounds, particularly when being turned on or off.
- Give careful consideration to the environment when disposing of batteries.

Carry the LCD projection TV in the specified manner

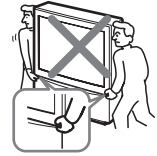
If you carry the LCD projection TV in a manner other than the specified manner and without the specified number of persons, it may drop and a serious injury may be caused. Be sure to follow the instructions mentioned below.

- Carry the LCD projection TV with the specified number of persons (see page 12).



- Do not carry the LCD projection TV holding the speaker grill.
- Hold the LCD projection TV tightly when carrying it.

- Before carrying the LCD projection TV, disconnect any accessories or cables.
- Do not carry the LCD projection TV holding the screen edges.



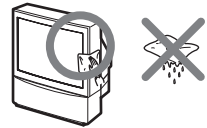
Caution

Do not use the LCD projection TV at altitudes higher than 4000 m, as doing so might cause malfunctions.

Cleaning

Clean the rear cover area of the LCD projection TV regularly. Dust in rear cover area may cause a problem with the cooling system of the LCD projection TV set.

- To remove hard contamination, use a cloth moistened with a solution of mild detergent and water. Do not use a spray cleaning solution directly to the TV. It should only be used to moisten the cleaning cloth.
- Clean the cabinet of the LCD projection TV with a dry soft cloth. To remove dust from the screen, wipe it gently with a soft cloth. Stubborn stains may be removed with a cloth slightly dampened with a solution of mild soap and warm water. Never use strong solvents such as thinner or benzene for cleaning. If picture brightness decreases over time, it may be necessary to clean the inside of the LCD projection TV. Consult qualified service personnel.
- Unplug the AC power cord when cleaning this unit. If not, it may result in electric shock.
- Do not rub, touch, or tap the surface of the screen with sharp or abrasive items, like a ball point pen or a screw driver. This type of contact may result in a scratched screen.



About the LCD projection TV

- Although the LCD projection TV is made with high-precision technology, black dots may appear or bright points of light (red, blue, or green) may appear constantly on the screen. This is a structural property of the panel and is not a malfunction.
- When High contrast non-moving images such as station logos and channel numbers are displayed for a long period of time, there may be some image retention on the screen. This is only a temporary condition. Turning off the power for a while or letting the TV run on another channel will eliminate the retained image.

About the AC power cord

The shape of AC plug varies, depending on the regions.

Projection lamp

- Your LCD projection TV uses a projection lamp as its light source. It is time to replace the lamp with a new one (not supplied) when:
 - the lamp replacement indicator on the front panel blinks in red,
 - screen images become dark,
 - no image appears on the display after prolonged use.
- In rare instances, the bulb may pop inside the lamp unit, but the lamp unit is designed to contain all of broken glass pieces inside the lamp unit. (See “Replacing the lamp” on page 48.)
- When the lamp eventually burns out, you may hear a noticeable pop sound. This is normal and is inherent in this type of lamp.
- This television’s lamp contains mercury and should be disposed of properly. Consult your local authorities regarding safe disposal. If the lamp is broken during use, a small amount of mercury may be released. In this situation, move away from the product and ventilate the area. In case of accidental contact or inhalation, or if you feel unwell, consult a physician promptly.

Cooling fan

This LCD projection TV uses a cooling fan. You may hear some fan noise (depending on the placement of the LCD projection TV), which may be more noticeable during the night, or when ambient noise is particularly low.

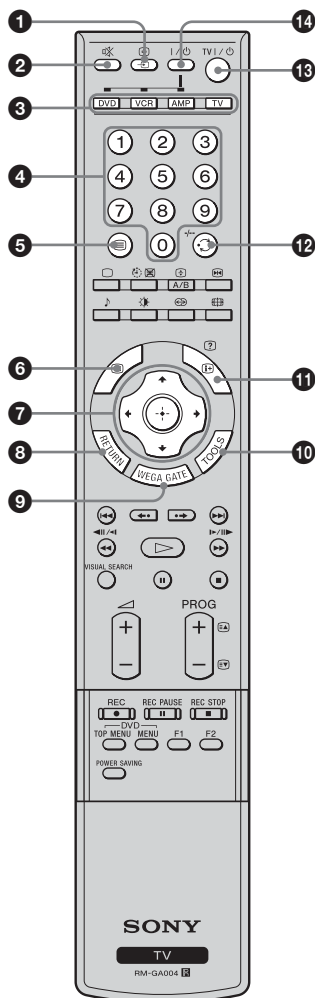
Disposal of Old Electrical & Electronic Equipment (Applicable in the European Union and other European countries with separate collection systems)



This symbol is on the remote control.

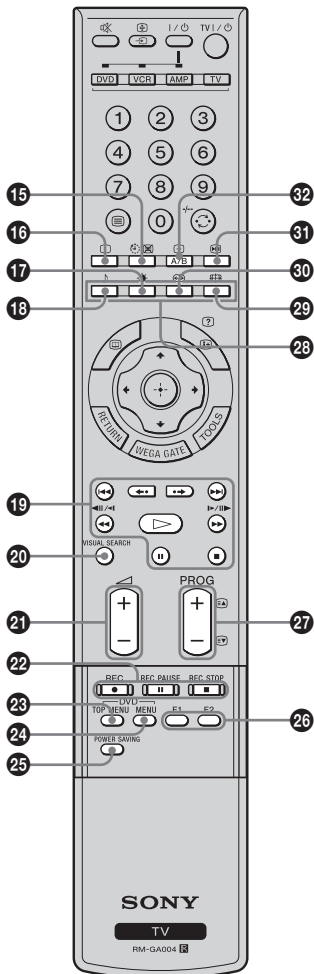


Overview of the remote



- 1** – **Input select / Text hold**
 In TV mode (page 21): Selects the input source from equipment connected to the TV jacks.
 In Text mode (page 19): Holds the current page.
- 2** – **Muting (page 18)**
 Mutes the sound.
- 3** **Function buttons (page 45)**

 - Selects the connected equipment you want to operate with this remote. The button of the equipment which the remote can operate lights up when operation buttons are pressed.
 - Used to program the remote to operate Sony video/audio equipment.
- 4** **Number buttons**
 In TV mode (page 18): Selects channels.
 In Text mode (page 19): Enters the three-digit page number to select the page.
- 5** – **Text (page 19)**
 Displays Text.
- 6**
 This button does not work with this model.
- 7** (page 24)
 Selects the item and setting when operating WEGA GATE.
- 8** **RETURN**
 Returns to the previous page when operating WEGA GATE.
- 9** **WEGA GATE (page 24)**
 Displays WEGA GATE which includes TV List, External Inputs, and Settings.
- 10** **TOOLS (page 20)**
 Enables you to access various viewing options and change/make adjustments according to the source and screen mode.
- 11** – **Info / Text reveal**
 In TV mode (page 18): Displays information such as current channel number and screen mode.
 In Text mode (page 19): Reveals hidden information (e.g., answers to quizzes).
- 12** – **Previous channel (page 18)**
 Returns to the previous channel watched (for more than five seconds).
 When operating DVD, it works as the “Execute” button (page 46).
- 13** – **TV standby (page 18)**
 Switches off the TV temporarily. The (standby) indicator on the front of the TV lights up. Press again to switch on the TV from the standby mode.
- 14** – **Power (page 46)**
 Switches the VCR, DVD, or audio equipment connected to the TV on or off.

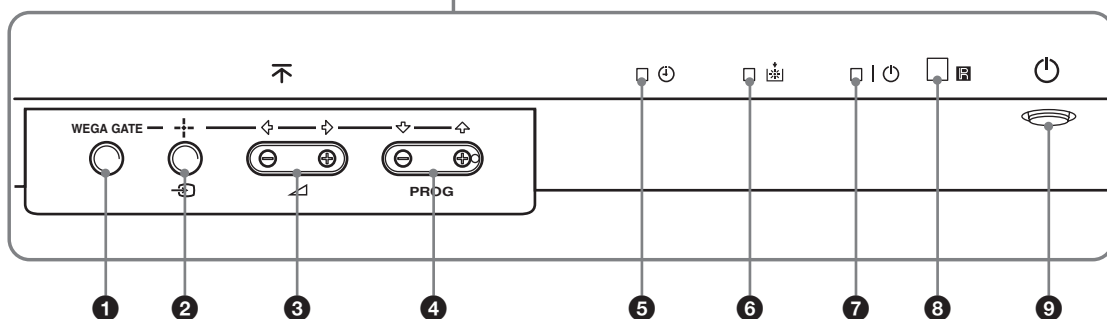
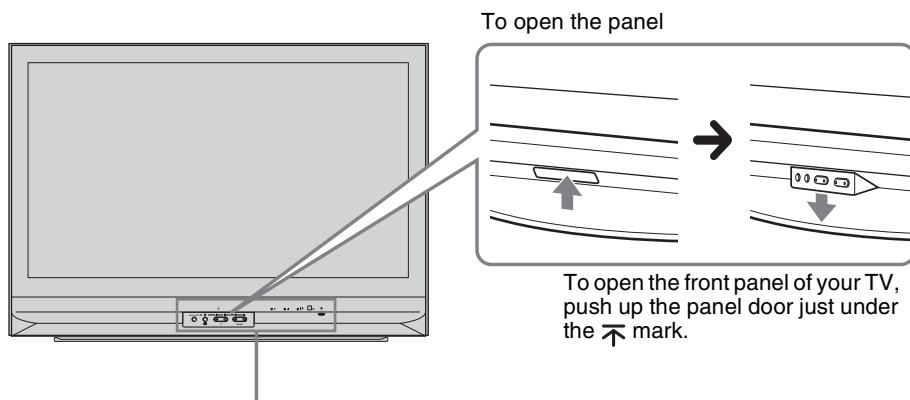


- 15** – **Sleep Timer (page 41)**
In TV mode (page 41): Activates Sleep Timer.
In Text mode (page 19): Stands by the Text page.
- 16** – **TV mode (page 21)**
Exits Text mode, or returns to TV mode.
- 17** – **Picture mode (page 28)**
Selects the picture mode.
- 18** – **Sound mode (page 31)**
Selects the sound mode.
- 19** **DVD/VCR operating buttons (page 45)**
Operates the connected DVD and VCR.
- 20** **VISUAL SEARCH (page 46)**
Works with connected equipment which has the visual search function.
- 21** – **Volume (page 18)**
Adjusts the volume.
- 22** **DVD/VCR record buttons (page 45)**
REC: Records the source
REC PAUSE: Pauses recording
REC STOP: Stops recording
- 23** **DVD TOP MENU (page 46)**
Displays the top menu of the connected DVD equipment.
- 24** **DVD MENU (page 46)**
Displays the menu of a DVD.
- 25** **POWER SAVING**
This function does not work with this model.
- 26** **F1/F2 (page 46)**
Selects the function of connected equipment.
- 27** **PROG +/-/◀/▶ (page 18)**
In TV mode (page 18): Selects the next (+) or previous (-) channel.
In Text mode (page 19): Selects the next (+) or previous (-) page.
- 28** **Colored buttons**
In Text mode (page 19): Used for Fastext.
- 29** – **Screen mode (page 20)**
Selects the type of the wide mode.
- 30** – **Surround (page 32)**
Selects the surround sound effect.
- 31** – **Picture Freeze (page 19)**
Freezes the current picture to display it on the left screen.
- 32** **A/B/◻ – Text enlarge**
In TV mode (page 18): Switches the sound between stereo and mono, or languages in bilingual programs.
In Text mode (page 19): Switches the text size.

Tip

The PROG+, ▷ (Play), A/B and number 5 buttons have tactile dots. Use the tactile dots as references when operating the TV.

Overview of the TV buttons and indicators

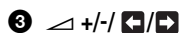


1 WEGA GATE (page 24)

Displays WEGA GATE.



Confirms the selection or setting.
Selects the video equipment connected to the TV's video inputs.



Increases (+) or decreases (-) the volume.
In TV menu: Moves through the options left (←) or right (→).

4 PROG +/- (↑/↓)

In TV mode: Selects the next (+) or previous (-) channel.
In TV menu: Moves through the options up (↑) or down (↓).

5 ⏰ indicator (page 41)

Lights up in amber when the Sleep Timer/On Timer is set.

6 🔦 indicator

Flashes up in red when the lamp for the light source has burned out.

7 I ⏻ indicator

Flashes in green when the light source is preparing to turn on. Lights up in green when the TV is switched on.
Lights up in red when the TV is in standby mode. When the lamp door or the lamp itself is not securely attached, the red indicator will continue to flash in intervals of three blinks at a time (see page 49).

8 Remote control sensor

Point the remote here.

9 ⏻ (page 15)

Switches the TV on or off.

Projection Lamp

Your TV uses a projection lamp as its light source. As with any lamp, it has lifespan and needs to be replaced when the lamp indicator flashes or the screen becomes darker.

Notes

After turning on your TV, it may take a while (1 minute or less) before the picture appears.

When the projection lamp wears out, the screen goes dark.

Replace the lamp with a new Sony XL-2400 replacement lamp (not supplied). How to replace the lamp, see page 48.

Warning

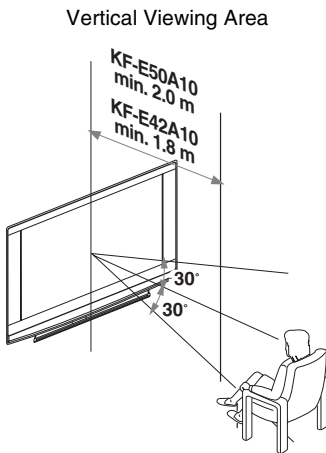
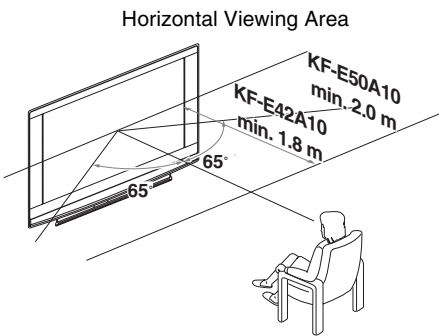
The light emitted from the lamp is quite bright when your TV is in use. To avoid eye discomfort or injury, do not look into the light housing when the power is on.

1: Installing the TV

Recommended Viewing Area

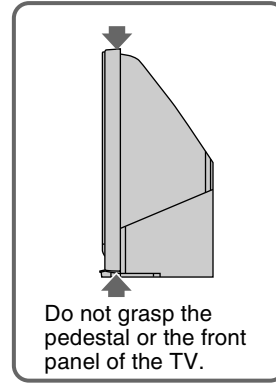
Your viewing position may affect the picture quality. For the best picture quality, install your TV within the areas shown below.

Model	Viewing distance
KF-E42A10	min. 1.8 m
KF-E50A10	min. 2.0 m



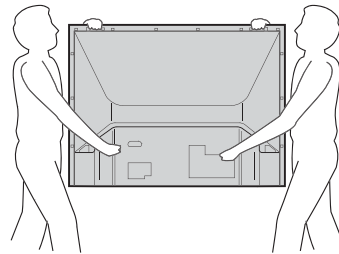
Carrying Your TV

Carrying the TV requires at least two people. Do not hold by the pedestal or the front panel of the TV. Doing so may cause these parts to break off.

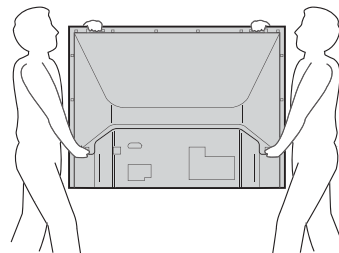


When moving the TV, place one hand in the hole on the lower portion of the TV while grasping the top with the other hand, as shown in the illustration below.

KF-E42A10



KF-E50A10



If you have connected cables and cords, be sure to unplug them before moving the TV.

Notes

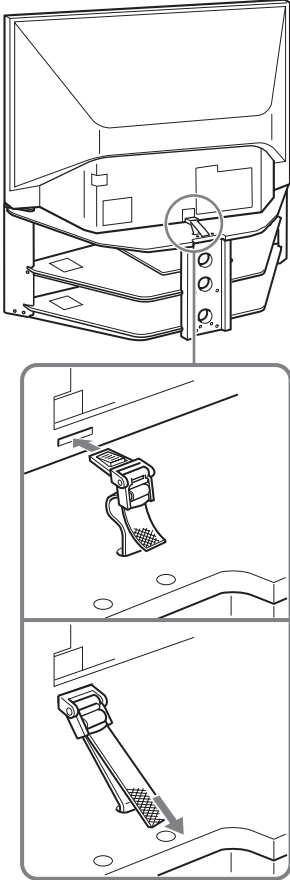
- To ensure the safety of children and the TV, keep children away from the TV during installation. Climbing on or pushing the TV or its stand may cause it to fall and damage the TV.
- When installing your TV against a wall, keep your TV at least 10 cm away from the wall to provide proper ventilation.

Preventing the TV from Toppling Over

As a protective measure, secure the TV as follows.

Using the TV stand with support belts

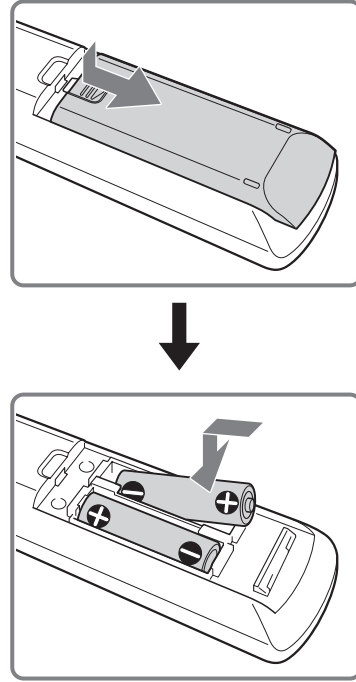
Sony strongly recommends using the TV stand SU-RG11S (for KF-E42A10)/SU-RG11M (for KF-E50A10) with a support belt designed for your TV.



Note

When using the SU-RG11S for KF-E42A10 (not supplied)/SU-RG11M for KF-E50A10 (not supplied) stand for your TV, you must use the support belt.

2: Inserting batteries into the remote

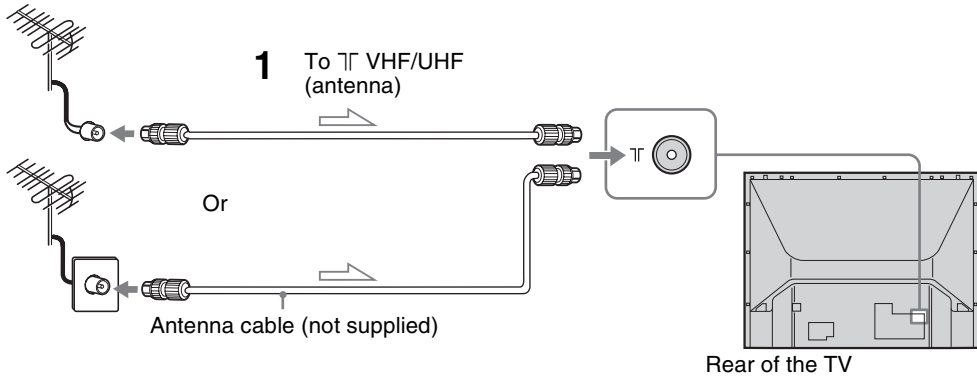


Notes

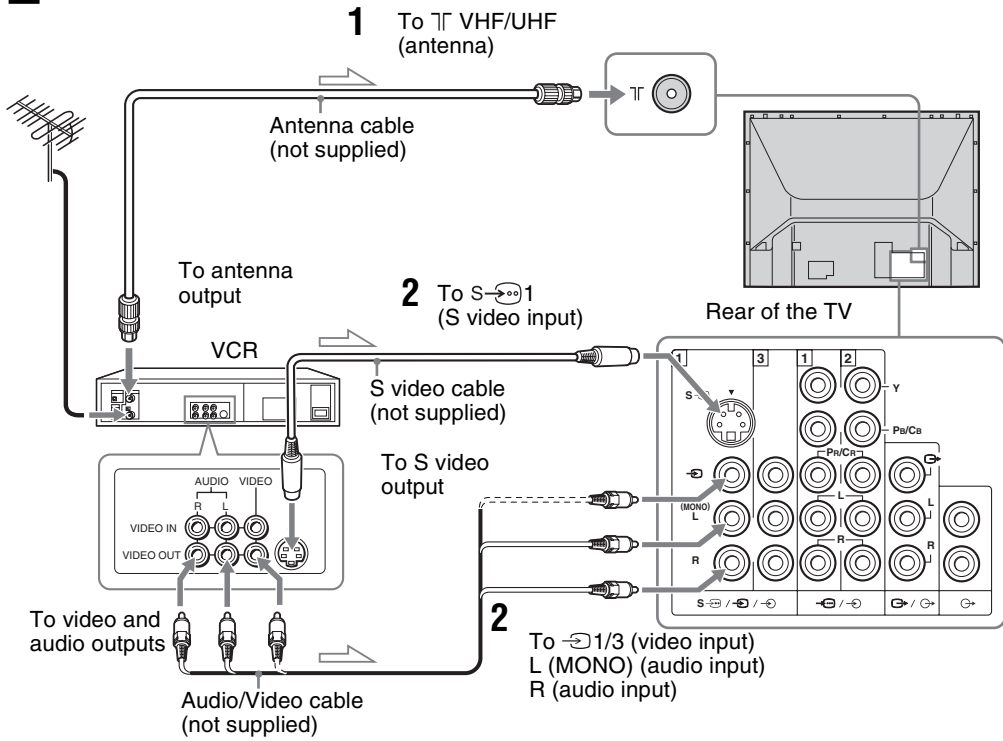
- Observe the correct polarity when inserting batteries.
- Dispose of batteries in an environmentally friendly way. Certain regions may regulate disposal of the battery. Please consult your local authority.
- Do not use different types of batteries together or mix old and new batteries.
- Handle the remote with care. Do not drop or step on it, or spill liquid of any kind onto it.
- Do not place the remote in a location near a heat source, or in a place subject to direct sunlight, or in a damp room.

3: Connecting an antenna/VCR

A



B



\Rightarrow : Signal flow

- 1 Connect your antenna with the antenna cable (not supplied).

If connecting to an antenna only (A)

Connect the male plug to the 7 VHF/UHF (antenna) jack on the rear of the TV.

Notes

- Note that one end of the cable has a male plug fitted while the other end is fitted with a female jack.
- Do not connect the power cord until all other connections are complete; otherwise, a minimal current leakage through the antenna and/or other terminals to the ground could occur.

If connecting to a VCR with an antenna (B)

Connect your antenna to the input jack on your VCR.

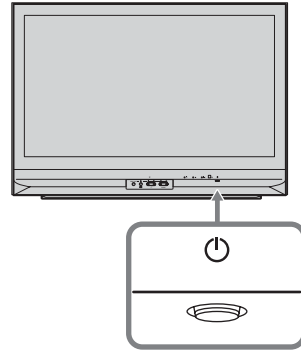
Notes

- If you connect a monaural VCR, connect the yellow plug to VIDEO (the yellow jack) and the black plug to AUDIO-L (MONO) (the white jack).
- If you connect a VCR to the 7 VHF/UHF (antenna) jack, preset the signal output from the VCR to the program number 0 on the TV.
- If the S video cable is connected to this TV and the VCR, the S video signal is automatically selected.


- 2 Connect your VCR.

Connect the output jack on your VCR to the input jack on the rear of the TV.



4: Switching on the TV



- 1 Connect the AC power cord to the AC power jack (220-240 V AC, 50/60 Hz).

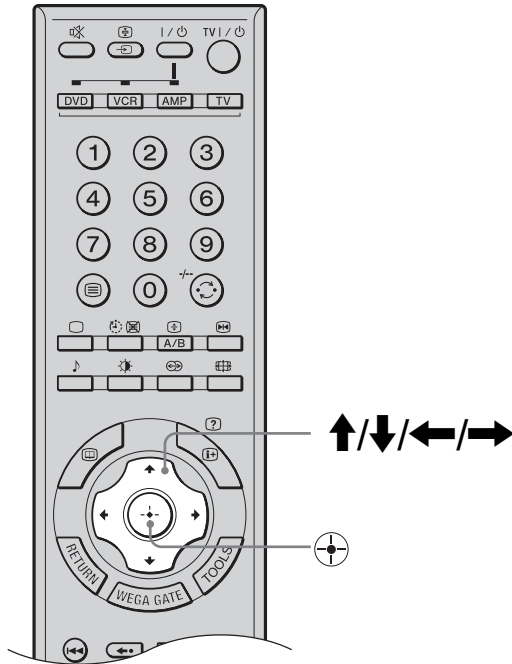
- 2 Press  on the TV (front side).

When you switch on the TV for the first time, the language menu appears on the screen, then go to “5: Selecting the language” on page 16.

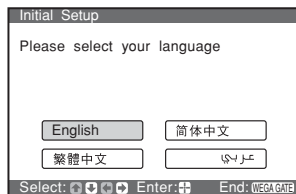
When the TV is in standby mode ( indicator on the front of the TV is red), press TV  on the remote to switch on the TV.

5: Selecting the language

When you switch on the TV for the first time, the language menu appears on the screen.



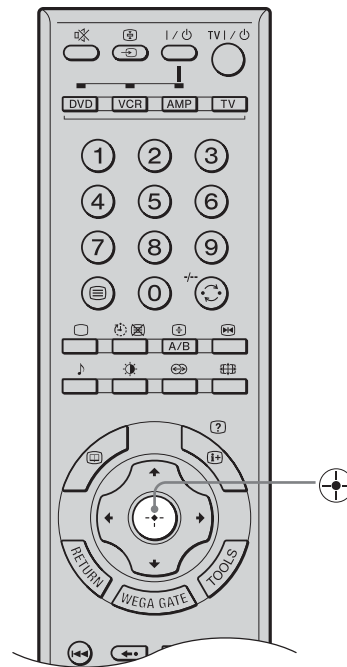
Press **↑/↓/←/→** to select the language displayed on the menu screens, then press **+**.



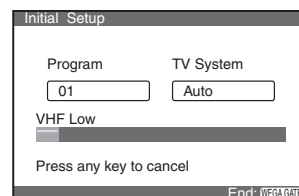
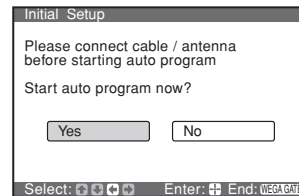
The message confirming that the TV starts auto program appears on the screen, then go to "6: Auto-programming the TV".

6: Auto-programming the TV

After selecting the language, a message confirming that the TV starts auto program appears on the screen. You must tune the TV to receive channels (TV broadcasts). Do the following to search and store all available channels.



Press **+** to select "Yes".




The TV starts searching for all available channels. This may take some time. Do not press any buttons on the TV or remote until it is completed. Once all available channels have been stored, the TV returns to normal operation, displaying the channel stored on channel number 1.

Tip

If you press any of the buttons during auto-programming, auto-programming operation is canceled. To perform auto-programming again, activate “Initial Reset” in the “Setup” menu (page 40).

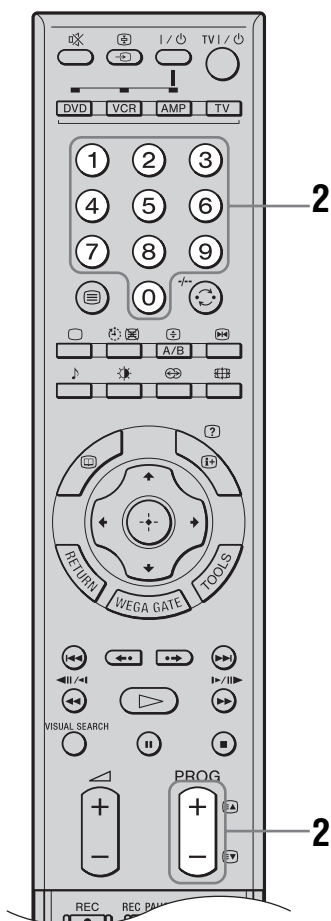
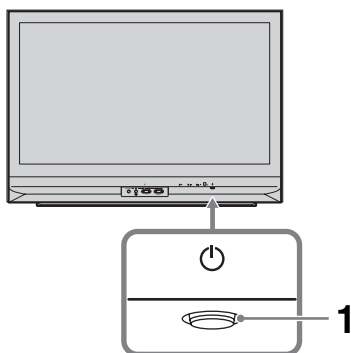
When a message appears for you to confirm the antenna connections

No channels are found. Check all the antenna connections and press  to start auto-program again.

To change the order in which the channels are stored on the TV

See page 37.

Watching TV



1 Press on the TV (front side) to switch on the TV.

When the TV is in standby mode (indicator on the front of the TV is red), press TV on the remote to switch on the TV.

2 Press the number buttons or PROG +/- to select a TV channel.

To select one-digit channel numbers, press 0 and the channel number.

Tips

- If you press the number button without pressing 0 to select a one-digit channel, you must wait for two seconds until receiving the channel.
- You can have one-digit channels selected immediately when you press the number buttons after setting “IDigit Direct” to “On” (page 36).

Additional operations

To	Do this
Turn off the TV temporarily (Standby mode)	Press TV .
Turn off the TV completely	Press on the front side of the TV.
Adjust the volume	Press + (increase) /- (decrease).
Mute the sound	Press . Press again to restore.
Return to the previous channel watched (for more than five seconds)	Press /-/-.
Select the surround sound effect	Press . For details, see page 32.
Switch the TV automatically to the standby mode after a specified time period – Sleep	Press . For details, see page 41.
Switch the sound between stereo and mono, or languages in bilingual programs	Press A/B/.
Display the on-screen information	Press / .

To access Text

Press . Each time you press , the display changes cyclically as follows:

Text → Text over the TV picture (mix mode) → No Text (exit the Text service)

To select a page, press the number buttons or PROG +/-.

To hold a page, press / .

To reveal hidden information, press / .

To change the text size, press A/B/ .

To have a Text page stand by while watching a TV program, press / .

Tips

- Ensure that the TV is receiving a good signal, or some text errors may occur.
- Some TV channels broadcast a Text service. For information on the use of the service, select the index page (usually Text page 100).
- When four colored items appear at the bottom of the Text page, Fastext is available. Fastext allows you to access pages quickly and easily. Press the corresponding colored button to access the page.

To enjoy stereo or bilingual programs

Switches the sound of NICAM or A2 (German) stereo system.

Press A/B/ repeatedly until you receive the sound you want.

The sound will be indicated on the screen as follows.

Broadcasting	On-screen display
NICAM stereo	NICAM (stereo sound) ↑ ↓ Mono (regular sound)
NICAM bilingual	NICAM Main (main sound) ↓ NICAM Sub (sub sound) ↓ Mono (regular sound) ←
NICAM monaural	NICAM Main (main sound) ↑ ↓ Mono (regular sound)
A2 (German) stereo	Mono (regular sound) ↑ ↓ Stereo (stereo sound)
A2 (German) bilingual	Main (main sound) ↑ ↓ Sub (sub sound)

Tips

- NICAM is receivable in following countries/regions. Hong Kong, Singapore, New Zealand, Malaysia, Thailand, etc.
- A2 (German) is receivable in following countries/regions. Australia, Malaysia, Thailand, etc.

Notes

- If the signal is very weak, the sound becomes monaural automatically.
- If the stereo sound is noisy when receiving a NICAM program, select “Mono”. The sound becomes monaural, but the noise is reduced.

If the sound of a monaural program is noisy or distorted

Press A/B/ to change the on-screen display from “Auto” to “Mono”.

Notes

- The “Mono” or “Auto” setting is memorized for each program position.
- You cannot receive a stereo broadcast signal when “Mono” is selected for the program position.


Picture Freeze

Freezes the TV picture (e.g. to make a note of a telephone number or recipe).

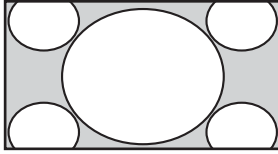
- 1 Press on the remote control.
- 2 Press again to return to normal TV mode.

Continued

To change the screen mode manually to suit the broadcast

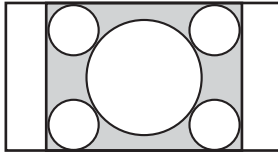
Press  repeatedly to select Wide Zoom, Normal, Full or Zoom.

Wide Zoom*



Enlarges the center portion of the picture. The left and right edges of the picture are stretched to fill the 16:9 screen.

Normal

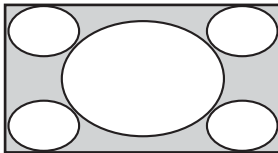


Displays the 4:3 picture in its original size. Side bars are shown to fill the 16:9 screen.

Note

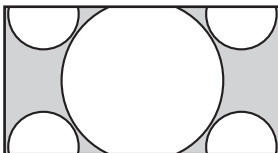
You cannot select “Normal” when input signals are 720p/1080i.

Full



Stretches the 4:3 picture horizontally, to fill the 16:9 screen.

Zoom*



Displays cinemascopic (letter box format) broadcasts in the correct proportions.

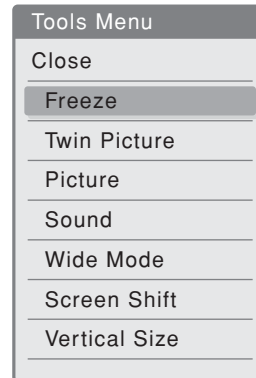
* Parts of the top and bottom of the picture may be cut off.







Tips

- Alternatively, you can set “Auto Wide” to “On”. The TV will automatically select the best mode to suit the broadcast (page 33).
- “Full 1”, “Full 2”, “Normal” and “Zoom” are available for Wide Mode when PC input is selected.

TOOLS operation (for TV)

You can access the following options quickly by pressing TOOLS. Available items differ depending on the screen mode and source.



Item	You can
Close	Close the Tools Menu.
Freeze	Freeze the screen (page 19).
Twin Picture	Display two screens (page 38).
Full Screen (Appears in Twin Picture mode.)	Returns to Full Screen.
Picture	Adjust picture (page 28).
Sound	Adjust sound (page 31).
Wide Mode	Select the screen mode (page 20).
Screen Shift	Adjust the screen position by pressing  /  /  /  (page 34).
Vertical Size	Adjust the picture size in vertical direction by pressing  /  (page 34). This menu appears only when the Zoom mode is selected.

Viewing pictures from connected equipment

Switch on the connected equipment, then press repeatedly until the correct input symbol (see below) appears on the screen.

On Screen Display	Input jacks
Video 1 or Video 1	Video : 1 (Rear) or Audio : 1 (Rear)
Video 2 or Video 2	Video : 2 (Side) Video : 2 (Side) Y, P _B /C _B , P _R /C _R Audio : 2 (Side)
Video 3	Video : 3 (Rear) Audio : 3 (Rear)
HD/DVD 1	Video : 1 (Rear) Y, P _B /C _B , P _R /C _R Audio : 1 (Rear)
HD/DVD 2	Video : 2 (Rear) Y, P _B /C _B , P _R /C _R Audio : 2 (Rear)
HDMI	Video/Audio : (Rear) HDMI IN Audio : (Rear)
PC	Video : (Rear) PC (RGB) Audio : (Rear) PC

To return to normal TV operation, press .

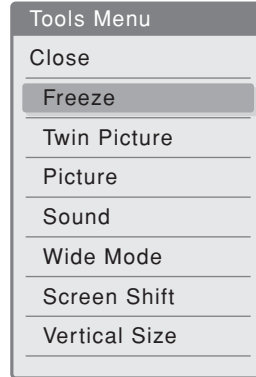
Note

To view the picture from the component input on the side panel, select "Auto" in "Video2(Component)" in "Setup" menu (page 40).

TOOLS operation (for connected equipment)

You can access the following options quickly by pressing TOOLS. Available items differ depending on the screen mode and source.

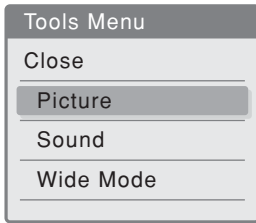
For video input



Item	You can
Close	Close the Tools Menu.
Freeze	Freeze the screen (page 19).
Twin Picture	Display two screens (page 38).
Full Screen (Appears in Twin Picture mode.)	Returns to Full Screen.
Picture	Adjust picture (page 28).
Sound	Adjust sound (page 31).
Wide Mode	Select the screen mode (page 20).
Screen Shift	Adjust the screen position by pressing (page 34).
Vertical Size	Adjust the picture size in vertical direction by pressing (page 34). This menu appears only when the Zoom mode is selected.

Continued


For PC input

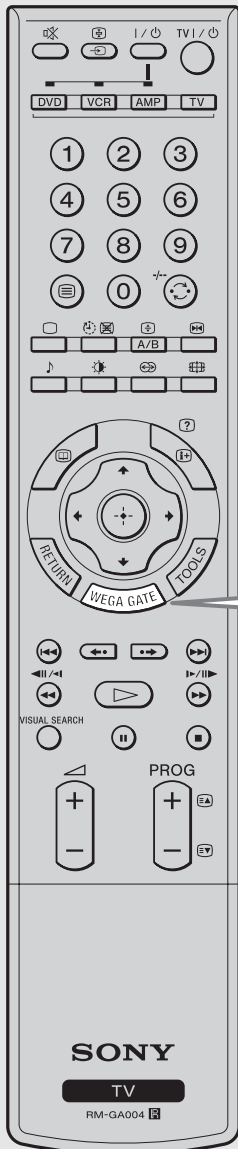


Item	You can
Close	Close the Tools Menu.
Picture	Adjust picture (page 28).
Sound	Adjust sound (page 31).
Wide Mode	Select the screen mode.

Introducing WEGA GATE

Overview of WEGA GATE

WEGA GATE provides one button access for controlling your TV. It enables you to perform a variety of tasks intuitively with a control panel on the screen rather than a variety of remote control button presses. When you press , you can select from basic TV function: watching TV, viewing external equipment signals, adjusting TV settings.



- 1** Press **WEGA GATE** on the remote.
The **WEGA GATE** control panel appears.

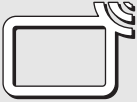


- 2** Press **↑/↓** to highlight the item you want.

- 3** Press **+** to select.

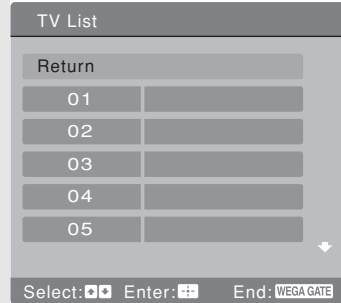
Press **WEGA GATE** to exit.

Using TV List in WEGA GATE



The TV List feature lets you select TV programs from a list of channel labels. You can assign a label to each channel. (page 36)

- 1 Select TV List from the WEGA GATE control panel and press **+**.
The TV List panel appears.
- 2 Press **↑/↓** to highlight the desired TV channel and press **+**.

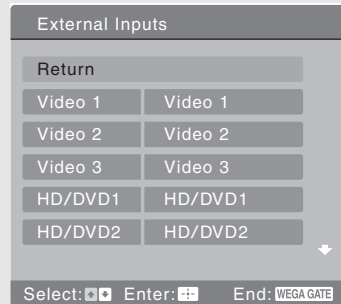


Using External Inputs in WEGA GATE



The External Inputs feature lets you select equipment that is connected to your TV, such as a DVD player/PC. You can assign a label to your equipment or skip unused inputs conveniently. (page 39)

- 1 Select External Inputs from the WEGA GATE control panel and press **+**.
The External Inputs panel appears.
- 2 Press **↑/↓** to highlight the desired external input and press **+**.



Using Settings in WEGA GATE

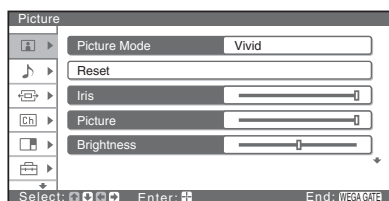


The Settings feature lets you adjust/set the Picture, Sound, Screen, Program, Twin Picture, Setup or Timer settings. For details, see page 26.

Overview of the Settings

The following options are available in each menu.
Also, see page in parentheses for details of each menu.

Options for TV and video input



1 Picture

- Picture Mode (28)
- Reset (28)
- Iris/Picture/Brightness/Color/Hue (29)
- Color Temperature (29)
- Sharpness (29)
- Noise Reduction (29)
- DRC Mode (29)
- DRC Palette (30)
- Advanced Video (30)
 - Reset/Black Corrector/Advanced Iris/Gamma/Clear White/Live Color

2 Sound

- Sound Mode (31)
- Reset (31)
- Treble/Bass/Balance (31)
- Steady Sound (31)
- Volume Level (32)
- Effect (32)
- BBE (32)
- Speaker (32)
- Audio Out (32)

3 Screen

- Wide Mode (33)
- Auto Wide (33)
- 4:3 Default (33)
- Display Area (34)
- Screen Shift (34)
- Vertical Size (34)

4 Program

- Auto Program (35)
- Manual Program (35)
 - Program/TV System/Fine/Skip/Sensitivity/VHF Low/VHF High/UHF
- 1Digit Direct (36)
- Program Label (36)
- Program Block (36)
- Program Sorting (37)

5 Twin Picture

- On (38)
- Off (38)

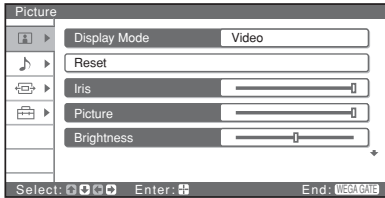
6 Setup

- Game Mode (39)
- Video Label (39)
- Language (39)
- Video2(Component) (40)
- Image Shift (40)
- High Altitude (40)
- Cinema Drive (40)
- Color System (40)
- Initial Reset (40)

7 Timer

- Sleep Timer (41)
- On Timer (41)

Options for PC input



1 Picture

- Display Mode (28)
- Reset (28)
- Iris/Picture/Brightness (29)
- Color Temperature (29)

2 Sound

- Sound Mode (31)
- Reset (31)
- Treble/Bass/Balance (31)
- Effect (32)
- Speaker (32)
- Audio Out (32)

3 Screen

- Wide Mode (33)
- Auto Adjustment (34)
- Phase/Pitch (34)
- Horizontal Center/Vertical Center (34)

6 Setup

- Power Management (39)
- Video Label (39)
- Language (39)
- Image Shift (40)
- High Altitude (40)

PC input signal compatibility chart

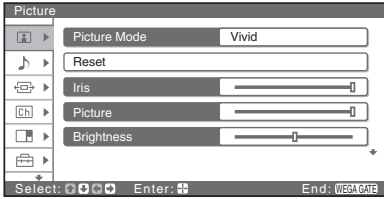
Signal	Resolution Horizontal (Pixel) × Vertical (Line)	Horizontal frequency (kHz)	Vertical frequency (Hz)	VESA standard
VGA	640 × 480	31.5	60	-*
	640 × 480	37.5	75	✓
	640 × 480	43.3	85	✓
	720 × 400	31.5	70	-*
SVGA	800 × 600	35.2	56	✓
	800 × 600	37.9	60	✓
	800 × 600	46.9	75	✓
	800 × 600	48.1	72	✓
XGA	1024 × 768	48.4	60	✓
	1024 × 768	56.5	70	✓
	1024 × 768	60	75	✓
WXGA	1280 × 768	47.4	60	✓
	1280 × 768	47.8	60	✓

* Corresponding to the VGA signal

Tips

- This TV's PC input does not support Sync on Green or Composite Sync.
- This TV's PC input does not support interlaced signals.
- This TV's PC input supports signals in the above chart with a 60 Hz vertical frequency. For other signals, "Unsupported Signal" will be displayed. For the best picture quality, it is recommended to use signals with a 60 Hz vertical frequency from a personal computer.

Picture menu



You can select the options listed below on the Picture menu.

To select options

- 1 Press .
- 2 Press \uparrow/\downarrow to select , then press \oplus .
- 3 Press \uparrow/\downarrow to select , then press \oplus .
- 4 Press \uparrow/\downarrow to highlight the option, then press \oplus .

Tip

The available options differ depending on the “Picture Mode” setting and input source.

- indicates the available options for TV.
- indicates the available options for video input.
- indicates the available options for PC input.

Picture Mode

Selects the picture mode.

Press \uparrow/\downarrow to select one of the following picture modes, then press \oplus .

Vivid: Enhanced picture contrast and sharpness.

Standard: Standard picture settings recommended for home entertainment.

Custom: Professional monitor like appearance settings.

Tip

You can also change the picture mode by pressing repeatedly.

Display Mode

Select the optimum display mode for video or text source.

Press \uparrow/\downarrow to select one of the following display modes, then press \oplus .

Video: Optimized to view video images.

Text: Optimized to view text, charts or tables.

Reset

Resets the picture settings, except the “Advanced Video” setting, to the factory settings.

Press \leftarrow/\rightarrow to select “Ok”, then press \oplus .

Iris/Picture/Brightness TV Video PC **/Color/Hue** TV Video

“Iris” adjusts the contrast levels.

“Picture” increases picture contrast (the color becomes deeper), or decreases it (the color becomes softer).

“Brightness” brightens or darkens the picture.

“Color” increases or decreases color intensity.

“Hue” increases or decreases the green tone.

1 Press **+** to select the option.

2 Press **↑/↓** to set the level, then press **+**.

Tip

“Hue” can only be adjusted for an NTSC color signal (e.g., U.S.A. video tapes).

Color Temperature TV Video PC

Changes the color tone of the picture.

Press **↑/↓** to select one of the following, then press **+**.

Cool: Gives the white colors a blue tint.

Neutral: Gives the white colors a neutral tint.

Warm1/Warm2: Gives the white colors a red tint. Warm2 is redder than Warm1.

Tip

“Warm1/Warm2” only appears and can be adjusted if “Picture Mode” is set to “Custom”.

Sharpness TV Video

Sharpens or softens the picture.

Press **←/→** to set the level, then press **+**.

Noise Reduction TV Video

Reduces the picture noise (snowy picture) in a weak broadcast signal.

Press **↑/↓** to select one of the following, then press **+**.

Auto: Automatically reduces the picture noise.

High/Medium/Low: Modifies the effect of the noise reduction.

Off: Turns off the noise reduction feature.

Note

This option cannot be used in Twin Picture, Picture Freeze mode.

DRC Mode TV Video

Selects the density adjustment according to the source.

Press **↑/↓** to select one of the following, then press **+**.

High Density: Creates a high-resolution picture with four times density. Recommended for high quality sources such as DVD.

Progressive: Recommended for moving pictures.

Off: Deactivates the DRC Mode.

Notes

- This option cannot be used in Twin Picture, Picture Freeze mode.
- This option cannot be used for 480p, 576p, 720p, and 1080i sources.
- This option cannot be used when “Game Mode” is “On” (page 39).

DRC Palette **TV** **Video**

Allows you to customize the level of detail (Reality) and smoothness (Clarity) using the DRC palette displayed on the screen.

Press **↑/↓** to adjust Reality, or **←/→** to adjust Clarity, then press **⊕**.

Notes

- This option cannot be used in Twin Picture, Picture Freeze mode.
- This option cannot be used for 480p, 576p, 720p, and 1080i sources.
- This option cannot be used when “Noise Reduction” is “Auto” (page 29).
- This option cannot be used when “DRC Mode” is “Off” (page 29).
- This option cannot be used when “Game Mode” is “On” (page 39).

Advanced Video **TV** **Video**

You can adjust the following options.

“Reset” resets the settings of the options in “Advanced Video” to the factory settings.

“Black Corrector” enhances the contrast performance.

“Advanced Iris” controls Iris shutter automatically.

“Gamma” adjusts light and dark balance.

“Clear White” emphasizes the whiteness of the picture.

“Live Color” improves the vividness of colors.

1 Press **↑/↓** to select an option, then press **⊕**.

2 Press **↑/↓** to select a setting, then press **⊕**.

Black Corrector: High/Medium/Low/Off

Advanced Iris: High/Medium/Low/Off

Gamma: Max/High/Medium/Low/Off

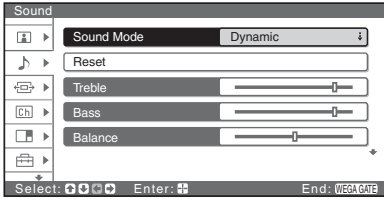
Clear White: High/Low/Off

Live Color: High/Medium/Low/Off

Tip

This option cannot be selected when “Picture Mode” is set to “Vivid” or “Standard”.

Sound menu



You can select the options listed below on the Sound menu.

To select options

- 1 Press .
- 2 Press \uparrow/\downarrow to select , then press \oplus .
- 3 Press \uparrow/\downarrow to select , then press \oplus .
- 4 Press \uparrow/\downarrow to highlight the option, then press \oplus .

TV

Video

PC

indicates the available options for TV.

indicates the available options for video input.

indicates the available options for PC input.

Note

You cannot operate the Sound menu when headphones are connected.

Sound Mode

TV

Video

PC

Selects the sound effects.

Press \uparrow/\downarrow to select one of the following sound effects, then press \oplus .

Dynamic: Enhances clarity, detail, and sound presence.

Standard: Suitable for spoken dialog.

Custom: Flat setting. Allows you to store your own preferred settings.

Tip

You can also change the sound mode by pressing repeatedly.

Reset

TV

Video

PC

Resets the sound settings, except the “Sound Mode” setting, to the factory settings.

Press \uparrow/\downarrow to select “Reset”, then press \oplus .

Treble/Bass/Balance

TV

Video

PC

Adjusts higher-pitched sounds (Treble), adjusts lower-pitched sounds (Bass), and emphasizes left or right speaker balance (Balance).

1 Press \oplus to select the option.

2 Press \leftarrow/\rightarrow to set the level, then press \oplus .

Steady Sound

TV

Video

Keeps a constant volume level even when volume level gaps occur (e.g., advertisements tend to be louder than programs).

Press \uparrow/\downarrow to select “On”, then press \oplus .

Volume Level TV Video

Decreases or increases the sound level.

Press **←/→** to set the level, then press **⊕**.

Effect TV Video PC

Provides the surround sound effect.

Press **↑/↓** to select one of the following sound effects, then press **⊕**.

TruSurround XT: Activates the surround sound (for stereo programs only).

Simulated: Adds a surround-like effect to mono programs.

Off: For normal stereo or mono reception.

Tips

- Simulated function is using SRS 3D Mono.
- You can also select the surround sound effect by pressing **↔** repeatedly.

BBE TV Video

Gives sound impact by compensating for the phase effects in speakers.

Press **↑/↓** to select one of the following, then press **⊕**.

High: The sound is reproduced with more impact.

Low: The sound is reproduced with impact.

Off: For normal stereo or mono reception.

Speaker TV Video PC

Switches on/off the TV's internal speakers.

Press **↑/↓** to select "On" or "Off", then press **⊕**.

On: The sound of the TV is output through the TV's speakers.

Off: No sound is output through the TV's speakers. Select "Off" when you want to hear the sound only through the external audio equipment connected to the audio output jacks **⊖**.

Audio Out TV Video PC

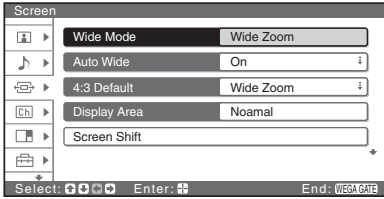
Sets the method used to adjust the volume from the connected audio system. This option can be selected only when "Speaker" is set to "Off".

Press **↑/↓** to select one of the following, then press **⊕**.

Variable: The audio output level from the connected audio system can be controlled by the TV's remote.










Fixed: The audio volume is fixed on the TV. Adjust the volume (and the audio settings) on the audio system.

Screen menu



You can select the options listed below on the Screen menu.

To select options

- 1 Press .
- 2 Press  to select , then press .
- 3 Press  to select , then press .
- 4 Press  to highlight the option, then press .

 indicates the available options for TV.

 indicates the available options for video input.



 indicates the available options for PC input.

Note

You cannot operate the Screen menu in Twin Picture or Picture Freeze mode.

Wide Mode


Selects the wide mode manually. For details about the wide mode, see page 20.

Press  to select “Wide Zoom”, “Normal”, “Full” or “Zoom” (see page 20 for details), then press .

Note



You cannot select “Normal” when input signals are 720p/1080i.

Tip

You can also select the wide mode manually by pressing  repeatedly.

Auto Wide

Automatically changes the screen format according to the broadcast signal.


Press  to select “On”, then press .

To keep your setting, select “Off”.

Note



You cannot select “Normal” when input signals are 720p/1080i.

Tip

Even if you have selected “On” or “Off” in “Auto Wide”, you can always modify the format of the screen by pressing  repeatedly.

4:3 Default

Sets the way to enlarge the 4:3 picture to fill the 16:9 screen.

Press  to select one of the following, then press .

Wide Zoom: Enlarges the 4:3 picture to fill the 16:9 screen, keeping the original image as much as possible.

Normal: Returns the 4:3 picture to its original size.

Full: Enlarges the 4:3 picture horizontally only.

Zoom: Displays cinematic (letter box format) broadcasts in the correct proportions.

Off: Continues using the current Wide Mode setting when the channel or input is changed.

Note

You cannot select “Normal” when input signals are 720p/1080i.

Display Area **TV** **Video**

Slightly enlarges the screen.

Press **↑/↓** to select “-1”, or “-2” to enlarge more, then press **⊕**.

To restore the original size, select “Normal”.

Screen Shift **TV** **Video**

Adjusts the screen position horizontally and vertically, however, vertical adjustment is available only in Zoom mode.

Press **↑/↓** to adjust the vertical position, or **←/→** to adjust the horizontal position, then press **⊕**.

Tip

You can access this option quickly by pressing TOOLS.

Vertical Size **TV** **Video**

Adjusts the vertical size of the picture in Zoom mode.

Press **↑/↓** to adjust the size, then press **⊕**.

Tip

You can access this option quickly by pressing TOOLS.

Auto Adjustment **PC**

Adjusts the display position of the picture automatically.

Press **←** to select “Start”, then press **⊕**.

To cancel this operation, select “Cancel”.

Phase/Pitch **PC**

“Phase” adjusts the phase to reduce flickering of the screen.

“Pitch” adjusts the pitch to make unwanted vertical stripes disappear.

1 Press **⊕** to select the option.

2 Press **↑/↓** to improve the screen appearance, then press **⊕**.

Horizontal Center/Vertical Center **PC**

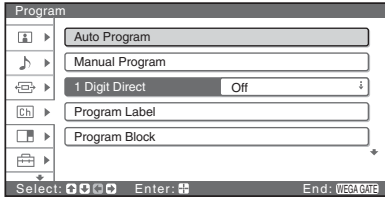
“Horizontal Center” adjusts the horizontal position of the picture.

“Vertical Center” adjusts the vertical position of the picture.

1 Press **⊕** to select the option.

2 Press **↑/↓** to adjust the position, then press **⊕**.

Program menu



You can select the options listed below on the Program menu.

To select options

- 1 Press .
- 2 Press \uparrow/\downarrow to select , then press \oplus .
- 3 Press \uparrow/\downarrow to select , then press \oplus .
- 4 Press \uparrow/\downarrow to highlight the option, then press \oplus .

- indicates the available options for TV.
- indicates the available options for video input.
- indicates the available options for PC input.

Auto Program

Tunes in all the available channels.

Usually you do not need to perform this operation because the channels are already tuned in when the TV is first installed (page 16). However, this option allows you to repeat the process (e.g., to retune the TV after moving house, or to search for new channels that have been launched by broadcasters).

Follow the operation of “6: Auto-programming the TV” (page 16).

When all available channels have been tuned in, the TV returns to normal operation.

Manual Program

Allows you to preset, adjust, skip, and tune in channels manually.

Press \uparrow/\downarrow to select one of the following options, then press \oplus .

Option	Description
Program	Presets channels manually.
TV System	<ol style="list-style-type: none"> 1 Press \uparrow/\downarrow to select “Program”, then press \oplus. 2 Press \uparrow/\downarrow to select the program number you want to manually tune in, then press \leftarrow. 3 Press \uparrow/\downarrow to select “TV System”, then press \oplus. 4 Press \uparrow/\downarrow to select the best received TV broadcast systems, then press \leftarrow. Repeat the procedure above to preset other channels manually. 5 Press .
Fine	<p>Fine-tunes the selected program number manually if you feel that a slight tuning adjustment will improve the picture quality. (Normally, fine tuning is performed automatically.)</p> <p>Press \uparrow/\downarrow to adjust the fine tuning, then press \oplus.</p> <p>To restore automatic fine tuning, select “Auto”.</p>

Continued

Option	Description
Skip	Skips unused channels when you press PROG +/- to select channels. (You can still select a skipped channel using the number buttons.) Press ↑/↓ to select "On", then press ⊕ . To restore a skipped channel, select "Off".
Sensitivity	Adjusts the TV reception sensitivity if the TV signal is too strong and the picture is distorted. Press ↓ to select "Low", then press ⊕ .
VHF Low/ VHF High/ UHF	Tunes in a channel manually. Press ←/→ until the desired channel's broadcast appears on the TV screen, then press ⊕ . Tip The frequency range indication (VHF Low, VHF High, or UHF) switches automatically as you keep pressing ←/→ . Note If the TV reception is not satisfactory, adjust the above options.

1Digit Direct **TV**

Setting "1Digit Direct" to "On", you can switch the channel to the one assigned to a number button as soon as you press the button. To enjoy the benefit of this feature, assign the channels you frequently watch to the program positions which are equivalent to the number buttons using "Program Sorting" (page 37).

Press **↑/↓** to select "On", then press **⊕**.

Tip

If there are many two-digit channels and you select them using the number buttons, select "Off".

Program Label **TV**

Assigns a channel name of your choice up to five letters or numbers. The name will be displayed briefly on the screen when the channel is selected.

- 1 Press **↑/↓** to select the channel you want to name.
- 2 Press **←/→** to select the position to input a character, **↑/↓** to select the desired letter or number.
- 3 Repeat the procedure in step 2 until the name is complete, then press **⊕**.

Program Block **TV**

Blocks an individual channel from being watched.

- 1 Press **↑/↓** to select the channel you want to block, then press **⊕**.
- 2 Press **↑/↓** to select "Block", then press **⊕**.
To watch the channel, select "Allow".

Program Sorting

Channels are assigned to the program positions sequentially when they are tuned in during auto-programming. “Program Sorting” allows you to replace the channel assigned to a program position with another channel.

- 1** Press **↑/↓** to select the channel you want to assign to another program position, then press **⊕**.
- 2** Press **↑/↓** to select the program position you want to assign the channel to, then press **⊕**.
Repeat the procedure in steps 1 and 2 to reassign other channels, if required.

Twin Picture menu



To select options

- 1 Press .
- 2 Press to select , then press .
- 3 Press to select , then press .

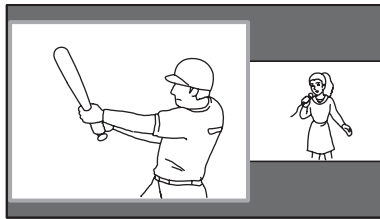
- indicates the available options for TV.
 indicates the available options for video input.
 indicates the available options for PC input.

Twin Picture

You can view different pictures at the same time.

Press to select "On".

Two screens are displayed.



Note

PC input pictures are not displayed on the Twin Picture screens.

Tips

- You can select the same program for both screens.
- Pictures input through the HDMI and component jacks are not displayed on the right screen.
- You can access this option quickly by pressing TOOLS.

To switch the active screen (the screen framed in green)

Press .

To change the program on the active screen

Press PROG +/-.

To change the program on the inactive screen

Press .

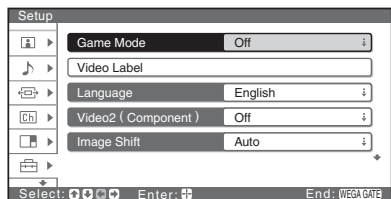
To change the input source

- 1 Select the active screen.
- 2 Press repeatedly.

To return to Full screen

Press .

Setup menu



You can select the options listed below on the Setup menu.

To select options

- 1 Press .
- 2 Press to select , then press .
- 3 Press to select , then press .
- 4 Press to highlight the option, then press .

- indicates the available options for TV.
- indicates the available options for video input.
- indicates the available options for PC input.

Game Mode

The TV is optimized for playing games.

Press to select “On”.

Power Management

Switches to standby mode when there is no signal input for 10 minutes.

Press to select “On”, then press .

Tip

“TV will turn off soon” appears on the screen one minute before the TV switches to standby mode.

Video Label

Assigns a name (jack number or equipment type) to the equipment connected to the side and rear jacks. The name will be displayed briefly on the screen when the equipment is selected.

- 1 Press to select the jack you want to name, then press .
- 2 Press to select a desired name, then press .
- 3 Repeat steps 1 and 2 to name other jacks.

Tip

To make the jack that no equipment is connected not to be displayed, select “Skip” in step 2.

Language

Selects the language in which the menus are displayed.

Press to select the language, then press .

All menus will appear in the selected language.

Video2(Component) **TV** **Video**

Selects the type of the video jack to be used from those on the left side of the TV.

Press **↑/↓** to select one of the following, then press **+**.

Auto: Activates the component video jacks (Y, Pb/Cb, Pr/Cr), however, the composite video jack is selected when the component video jacks are not connected.

Off: Activates the composite video jack (**→**).

Image Shift **TV** **Video** **PC**

Corrects the image on your TV.

Before adjusting



After adjusting



Auto (Factory setting): Automatically corrects double images.

Level 1-4: Aligns the images and improve the picture. The adjusted value tends to move strongly away from Level 1, and towards Level 4.

High Altitude **TV** **Video** **PC**

Selects On when you use the TV at an altitude of 5,000 feet (1,500 m) or higher.

Press **↑/↓** to select “On”, then press **+**.

Cinema Drive **TV** **Video**

Provides an optimized display by automatically detecting the film content. Moving pictures will appear clearer and more natural-looking.

Press **↑/↓** to select “Auto”, then press **+**.

Tip

You can select this option for NTSC system pictures only.

Color System **TV** **Video**

Sets the color system of the TV to that of the source you want to play back.

Press **↑/↓** to select the color system, then press **+**.

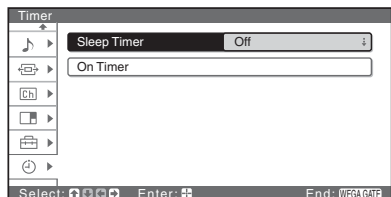
Usually select “Auto” so that an appropriate color system for the source is selected automatically.

Initial Reset **TV** **Video**

Resets all the manual settings to the factory settings.

Press **←** to select “Ok”, then press **+**. Repeat this operation once more.

Timer menu



You can select the options listed below on the Timer menu.

To select options

- 1 Press .
- 2 Press to select , then press .
- 3 Press to select , then press .
- 4 Press to highlight the option, then press .



indicates the available options for TV.



indicates the available options for video input.



indicates the available options for PC input.

Sleep Timer

Sets a period of time after which the TV automatically switches itself into standby mode.

Press to select the desired time period in minute (“15M”/“30M”/“45M”/“60M”/“90M”/“120M”), then press .

The (Timer) indicator on the TV (front side) lights up in amber.

Tips

- You can set the sleep timer by pressing repeatedly.
- If you switch off the TV and switch it on again, “Sleep Timer” is reset to “Off”.
- “TV will turn off soon” appears on the screen one minute before the TV switches to standby mode.
- If you press , the remaining time in minutes before the TV switches to standby mode is displayed on the screen.

On Timer

Sets a time when the TV automatically switches itself on.

1 Press to select “Timer Set”, then press .

2 Press to select “On”, then press .

The (Timer) indicator on the TV (front side) lights up in amber.

3 To set the time, press to select “Time”, then press .

4 Set the hour using , then press .

5 Set the minute using , then press .

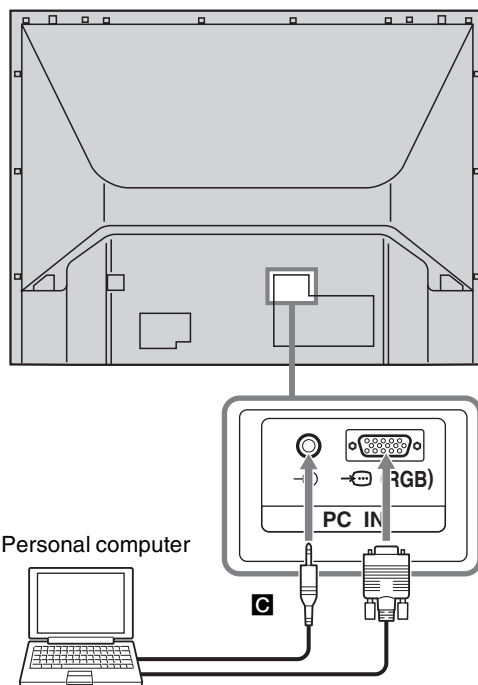
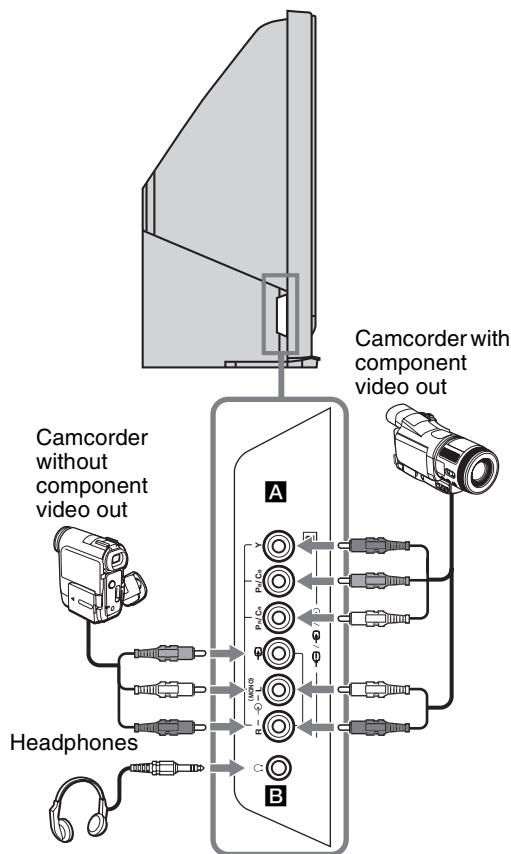
Tips

- To cancel the on-timer setting, select “Off” in step 2.
- You can set the on-timer in 10-minute increment for up to 12 hours later.
- If the TV is not operated for two hours after it is turned on by the on-timer, the TV automatically switches itself to standby mode.

Connecting optional equipment

You can connect a wide range of optional equipment to your TV.
Connect the cables, matching the colors of the plugs with those of the jack.

Connecting to the side/rear of the TV



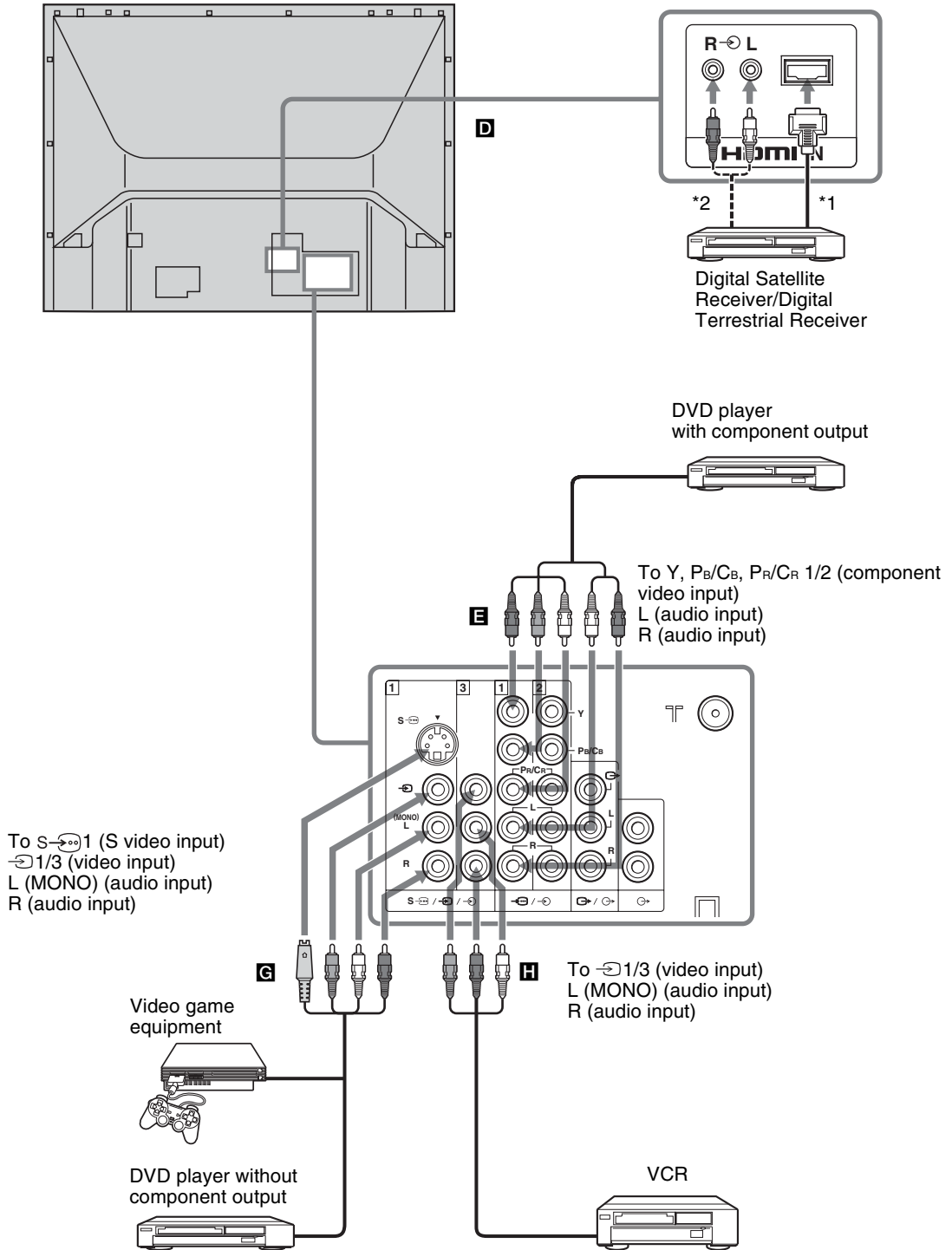
To connect	Do this
Personal computer C	Connect to the PC Input jack RGB and the audio jack on the rear of the TV.

To connect	Do this
Camcorder or video game equipment A	Connect to the video jack 2, or component jack 2, and the audio jacks 2. If you connect mono equipment, connect it to the L(MONO) jack 2 (page 43).
Headphones B	Connect to the jack to listen to sound from the TV on headphones.

Note

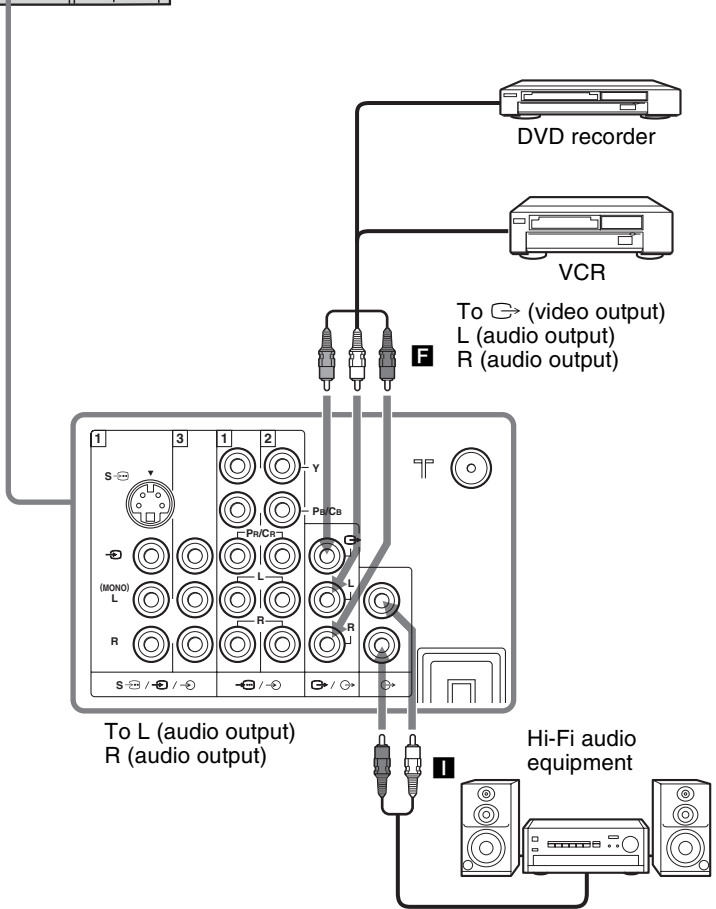
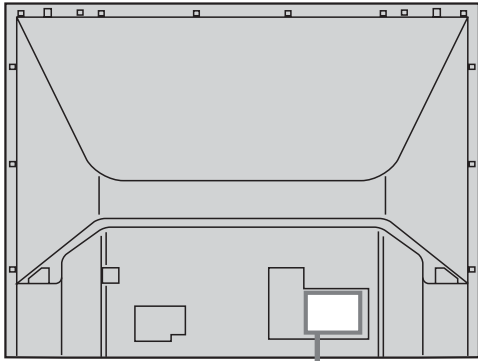
To see the image from Component input on the side panel, select "Auto" in "Video2(Component)" in "Setup" menu (page 40).

Connecting to the rear of the TV



- *1 Use an HDMI cable, HDMI-to-DVI cable, or adaptor (not supplied).
- *2 When using an HDMI cable, it is not necessary to connect the audio cable. When using an HDMI-to-DVI cable or an adaptor, it is necessary to connect the audio cable.

Continued



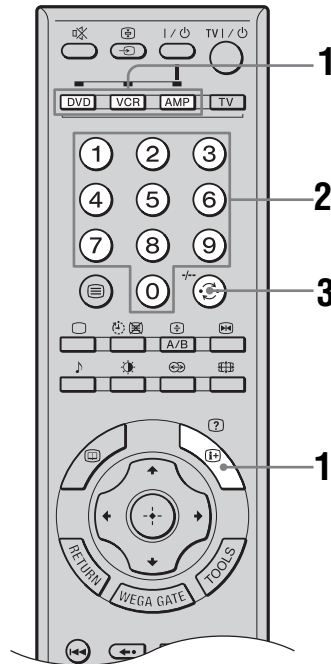
To connect	Do this
Digital satellite receiver or digital terrestrial receiver D	<p>Connect only to the HDMI IN jack. The digital video and audio signals are input from the digital receiver.</p> <p>Tip If the digital receiver has an HDMI jack, connecting via an HDMI cable will provide the best results.</p> <p>Note When using an HDMI-to-DVI cable or an adapter, be sure to connect the DVI output connector first; then connect to the HDMI jack on the TV.</p>
DVD player with component output E	<p>Connect to the component jack → 1, 2 and the audio jacks → 1, 2. For better picture quality, component connection is recommended if your DVD player has a component output.</p>
DVD recorder or VCR F	<p>Connect to the video output jacks → to record the image from the TV. Connect to the audio output jacks → to record to the sound from the TV on the DVD recorder or VCR. To turn off the sound of the TV speakers, set "Speaker" to "Off" (page 32).</p>
Video game equipment or DVD player without component output G H	<p>Connect to the S video jack S → 1 or the video jack → 1, 2 or 3, and the audio jacks → 1, 2 or 3. To avoid picture noise, do not connect the camcorder to the video jack → 1 and the S video jack S → 1 at the same time. If you connect mono equipment, connect to the L (MONO) jack → 1, 2 or 3.</p>
Hi-Fi audio equipment I	<p>Connect to the audio output jacks → to listen to the sound from the TV on the Hi-Fi audio equipment. To turn off the sound of the TV speakers, set "Speaker" to "Off" (page 32).</p>

Programming the remote

If you have Sony VCRs/DVDs and Sony DVD Home Theater Systems/Amplifiers, do the following procedure to program the remote so that you can operate them using this remote.

Note

Before you start, look up the three-digit code for your equipment on page 46. For equipment that has more than one code, try with the first code number.



- 1 Press and hold the DVD, VCR, or AMP function button you want to program on the remote and press the **(+/-)/?** button simultaneously.
The selected function button (DVD, VCR, or AMP) will flash.
- 2 Enter the three-digit code using the number buttons while the function button is lit. (approximately 10 seconds)
- 3 Press **(-/+)** or **(+)** to complete the programming.
When the programming is done successfully, the selected function button will flash twice slowly, and if not, will flash five times quickly.

Continued

To check if the code works

Aim the remote to the equipment, then press . If the equipment responds, the programming is completed. If not, try the next code listed.

Equipment's codes

Equipment	Code
VCR	001*, 002, 003, 004
DVD	101*, 151, 201, 202, 203
Amplifier	301, 302, 303, 304, 401*, 402, 403, 451

* Factory setting

To set the remote to restore operation of the TV automatically

In the factory setting, the remote is set to operate a piece of equipment selected by one of the function buttons. The remote operates the equipment until another function button is pressed.

You can set the remote to operate the TV automatically if the remote has not been used to operate the other equipment for 30 seconds.

You can select either setting by the following operation.

Holding TV down, press and PROG- simultaneously.

When the remote returns to operate the TV, the TV button will light up.

When the remote is set to operate a different piece of equipment, all four function buttons will light up simultaneously.

Using other equipment with the remote

To operate other connected equipment, first program the necessary code.

Note

Some functions cannot be operated with the TV's remote depending on the equipment. In that case, use the remote supplied with the equipment.

To operate a VCR

To	Press
activate the remote to operate VCR the VCR	
turn on/off	
change channels	PROG+/-
record	REC ●

To	Press
stop recording	REC STOP ■
pause recording	REC PAUSE (press again to resume recording)
play	
stop	■
fast forward	
rewind the tape	
pause	(press again to resume normal playback)
search the picture forward or backward	or during playback (release to resume normal playback)

To operate a DVD player

To	Press
activate the remote to operate DVD the DVD	
turn on/off	
play	
stop	■
pause	(press again to resume normal playback)
step through different tracks of the disc	to fast reverse, or to fast forward the disc during playback
step through different chapters of the disc	to step forward, or to step backward
select a track directly	0-9, /-/-
display the top menu	DVD TOP MENU
display the disc menu	DVD MENU
operate the DVD menu	,
select the SYSTEM MENU	WEGA GATE

To operate a 5.1ch DVD AV System (DAV)

To	Press
activate the remote to operate DVD the DVD	
turn on/off	
display the top menu	DVD TOP MENU
display the disc menu	DVD MENU
play	
stop	■

To	Press
pause	⏸ (press again to resume normal playback)
search the picture forward or backward	▶▶ or ◀◀ during playback
specify the previous chapter/track	◀◀◀
specify the next chapter/track	▶▶▶
move highlight (cursor), and select	↑ ↓ ← →, ⊕
change volume	△+/-, ✖

To operate a DVD/VCR combo unit

To	Press
activate the remote to operate DVD or VCR the DVD or VCR	
turn on/off	⏻
display the top menu (DVD)	DVD TOP MENU
display the disc menu (DVD)	DVD MENU
play	▶
stop	■
pause	⏸ (press again to resume normal playback)
search the picture forward or backward	▶▶ or ◀◀ during playback
replay (DVD)	◀•
advance (DVD)	•▶
move highlight (cursor), and select (DVD)	↑ ↓ ← →, ⊕
Record (VCR)	REC ●
stop recording (VCR)	REC STOP ■
pause recording (VCR)	REC PAUSE ⏸ (press again to resume recording)
change channels (VCR)	PROG+/-, 0-9, ↻ / -/-- (using tuner)
adjust tracking (VCR)	PROG+/- (during tape playback)

To operate an HDD/DVD combo unit

To	Press
activate the remote to operate the HDD/DVD	
turn on/off	⏻
select the HDD	F1
select the DVD	F2
play	▶
stop	■
pause	⏸ (press again to resume normal playback)
search the picture forward or backward	▶▶ or ◀◀ during playback
replay (DVD)	◀•
advance (DVD)	•▶
move highlight (cursor), and select	↑ ↓ ← →, ⊕
specify the previous chapter/track	◀◀◀
specify the next chapter/track	▶▶▶
Record	REC ●
stop recording	REC STOP ■
pause recording	REC PAUSE ⏸ (press again to resume recording)
display the top menu (DVD)	DVD TOP MENU
display the disc menu (DVD)	DVD MENU
select the SYSTEM MENU	WEGA GATE
search a scene from the chapter list	VISUAL SEARCH
select another input signal connected to the input	→/⊕

To operate an AV Receiver/amplifier

To	Press
activate the remote to operate the amplifier	
turn on/off	⏻
master volume	△+/-, ✖
select other input connected to the AV receiver/amplifier	→/⊕

Additional Information

Replacing the lamp

The projection lamp, which illuminates the picture, has a limited life.

If the screen becomes dark, the color looks unusual, or the LAMP indicator on the front of the LCD projection TV flashes, it is time to replace the lamp with a new one (not supplied).

This television uses a replaceable lamp as its light source. Over time, the screen will gradually grow darker as the lamp ages. Although rare, the lamp may make a small pop and will no longer light up. The lamp should be replaced after about 8,000 hours, which is the standard amount of time it takes for the lamp brightness to be reduced by half. Because the actual lamp life will vary depending on the operating conditions and environment, 8,000 hours is an estimate, not a guarantee.

WARNING

Electric appliances can cause fire or high temperature, resulting in injury or death. Be sure to follow the instructions below.

- Use a Sony XL-2400 replacement lamp (not supplied) for replacement. Use of any other lamp may damage the LCD projection TV.
- Do not remove the lamp for any purpose other than replacement. Doing so may cause injury or fire.
- Do not put flammable materials and metal objects inside the lamp receptacle of the TV after removing the lamp. Doing so may cause fire or electrical shock. Do not touch the lamp receptacle once the lamp has been removed.
- When the lamp eventually burns out, you may hear a noticeable pop sound. This is normal and it is inherent to this type of lamp.
- In rare instances, the bulb may pop inside the lamp unit, but the lamp unit is designed to contain all of the broken glass pieces inside the lamp unit.

CAUTION

Disposing of the lamp

This product contains mercury. For disposal or recycling information, please contact your local authorities.

Handling of the lamp

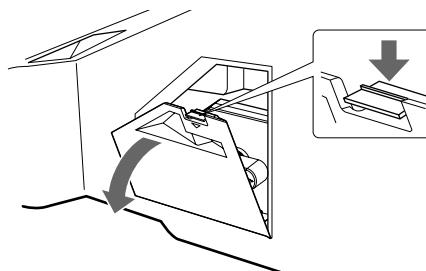
- Do not leave the used lamp near flammable materials or within the reach of children.
- Do not pour water onto the used lamp or put any object inside the lamp. Doing so may cause the lamp to burst.

- 1** Turn off the power on the main unit. Wait several minutes, then unplug the power cord.
(The cooling fan will continue to blow for about two minutes after turning the power off.)
- 2** Wait at least 30 minutes after unplugging the power cord to allow the lamp to cool down before replacing it. To avoid being burned, do not touch the lamp receptacle once the lamp has been removed.
- 3** Take the new lamp out of the box. Do not touch the glass portion of the new lamp.

Notes

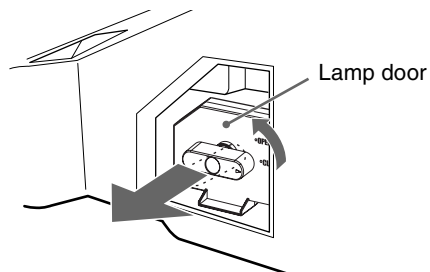
- Do not shake the lamp. Vibration can damage the lamp or shorten its life.
- Avoid touching the front glass of a new lamp or the glass of the lamp receptacle. This may reduce picture quality or lamp life.

- 4** Remove the outside lamp cover.



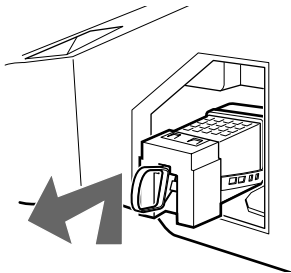
- 5** Remove the lamp door.

Turn the knob counterclockwise to OPEN and pull out the cover.



6 Pull out the lamp.

Hook a finger through the loop of the lamp handle and pull the handle upwards. Then pull the lamp straight out.

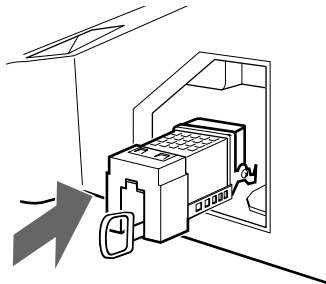


Notes


- The lamp is very hot immediately after use. Never touch the glass portion of the lamp or the surrounding parts.
- After the used lamp has cooled, place it into the empty box of the replacement lamp. Never put the used lamp into a plastic bag.

7 Put the new lamp into its place.

Mount the new lamp securely. Failure to do so may cause a fire or the screen to go dark.

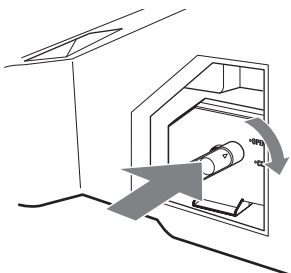


Note

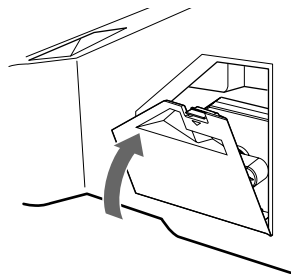
If the lamp is not securely reattached, the self-diagnostic function may be triggered and the  indicator flashes three times (see page 10).

8 Reattach the lamp door.

Turn the knob back to CLOSE and secure the cover.



9 Put the outside lamp cover back in its place.



Notes

- Consult your Sony dealer for a Sony XL-2400 replacement lamp.
- Take great care when replacing the lamp or plugging in/unplugging the connecting cords. Rough handling may cause the TV to fall, damaging the TV, the TV stand and the floor.

Specifications

Display Unit

Power Requirement:

220-240 V AC, 50/60 Hz

Projection System

3 LCD (Liquid Crystal Display) Panels, 1 lens projection system

LCD Panel

Size 0.73 inch TFT LCD panel
Resolution 1,280 pixels × 720 lines

Projection Lenses

High performance, large-diameter highbrid lens F2.4

Lamp

UHP lamp, 100 W, XL-2400

Screen Size:

KF-E50A10: 50 inches (approx. 125.5 cm measured diagonally)
KF-E42A10: 42 inches (approx. 105.2 cm measured diagonally)

Display Resolution:

1,280 pixels (horizontal) × 720 lines (vertical)

Power Consumption:

KF-E50A10: 195 W
KF-E42A10: 195 W

Standby Power Consumption:

KF-E50A10: 1 W or less
KF-E42A10: 1 W or less

Dimensions (w × h × d):

KF-E50A10:
Approx. 1,184 × 827 × 408 mm
KF-E42A10:
Approx. 999 × 722 × 357 mm

Weight:

KF-E50A10: Approx. 32 kg
KF-E42A10: Approx. 27 kg

TV System

I, D/K, B/G, M

Colour System

PAL, PAL60, SECAM, NTSC 4.43, NTSC 3.58

Antenna

75 ohm external terminal

Channel Coverage

B/G

VHF: E2 to E12 / UHF: E21 to E69 /
CATV: S01 to S03, S1 to S41

VHF: 0 to 12, 5A, 19A / UHF: 28 to 69 /
CATV: S01 to S03, S1 to S41(Australia only)

VHF: 1 to 11 / UHF: 21 to 69 /
CATV: S01 to S03, S1 to S41(New Zealand only)

I

UHF: B21 to B68 / CATV: S01 to S03, S1 to S41


D/K

VHF: C1 to C12, R1 to R12 / UHF: C13 to C57,
R21 to R60 /
CATV: S01 to S03, S1 to S41, Z1 to Z39


M

VHF: A2 to A13 / UHF: A14 to A79 /
CATV: A8 to A2, A to W+4, W+6 to W+84

Terminals

S VIDEO 1 (4-pin mini DIN): S 

Y: 1.0 Vp-p, 75 ohms unbalanced, sync negative
C: 0.286 Vp-p (Burst signal), 75 ohms

VIDEO/AUDIO IN 1/3: 

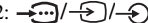
VIDEO: 

1 Vp-p, 75 ohms unbalanced, sync negative

AUDIO: 

500 mVrms

Impedance: 47 kilohms

VIDEO/AUDIO IN 2: 


Y, Pb/Cb, Pr/Cr (Component video) :

Y : 1.0 Vp-p, 75 ohms unbalanced, sync negative

Pr/Cr : 0.7 Vp-p, 75 ohms

Pb/Cb : 0.7 Vp-p, 75 ohms

Signal format : 480i, 576i, 480p, 576p, 720p, 1080i


VIDEO: 

1 Vp-p, 75 ohms unbalanced, sync negative

AUDIO: 

500 mVrms

Impedance: 47 kilohms

HD/DVD IN 1/2: 


Y, Pb/Cb, Pr/Cr (Component video) :

Y : 1.0 Vp-p, 75 ohms unbalanced, sync negative

Pr/Cr : 0.7 Vp-p, 75 ohms


Pb/Cb : 0.7 Vp-p, 75 ohms

Signal format : 480i, 576i, 480p, 576p, 720p, 1080i

AUDIO: 

500 mVrms

Impedance: 47 kilohms


VIDEO/AUDIO OUT: 

VIDEO: 

1 Vp-p, 75 ohms unbalanced, sync negative

AUDIO: 

More than 1 Vrms at the maximum volume setting

AUDIO OUT: 


More than 1 Vrms at the maximum volume setting
(Variable)

More than 500 mVrms (Fixed)

PC IN :

VIDEO:  (RGB)

D-sub 15-pin, analogue RGB, 0.7 Vp-p, 75 ohms,
positive

AUDIO: 

Stereo minijack, 0.5 Vrms, 1 kilohm


See the PC Input Signal Compatibility Chart on page 27.

HDMI IN:

HDMI

Video: 480i, 480p, 576i, 576p, 720p, 1080i

Audio: Two channel linear PCM 32, 44.1 and
48 kHz, 16, 20 and 24 bits

AUDIO: 

500 mVrms (100% modulation)

Impedance: 47 kilohms

Headphones

Stereo minijack

Impedance: 16 ohms

Sound Output

KF-E50A10: 12 W + 12 W


KF-E42A10: 12 W + 12 W

Optional accessories

- TV stand
KF-E50A10: SU-RG11M, KF-E42A10: SU-RG11S



Design and specifications are subject to change
without notice.

Troubleshooting

Check whether the **I**  indicator is flashing in red.

When it is flashing






The self-diagnosis function is activated.

- 1 Measure how many times the **I**  indicator flashes and stops flashing.
For example, the indicator flashes for two seconds, stops flashing for one second, and flashes for two seconds.
- 2 Press  on the TV (front side) to switch it off, disconnect the AC power cord, and inform your dealer or Sony service center of how the indicator flashes (duration and interval).

When it is not flashing

- 1 Check the items in the tables, below.
- 2 If the problem still persists, have your TV serviced by qualified service personnel.

Picture

Problem	Cause/Remedy
No picture (screen is dark) and no sound	<ul style="list-style-type: none">• Check the power cord, antenna, and VCR connection.• The TV is not turned on. Press  on the TV (front side).• If the I  indicator lights up in red, press TV I/.
No picture or no menu information from equipment connected to the video input jack	<ul style="list-style-type: none">• Check that the optional equipment is on and press / repeatedly until the correct input symbol is displayed on the screen.• Check the connection between the optional equipment and the TV.
Distorted picture	<ul style="list-style-type: none">• Check if any connected optional equipment is installed in front of the TV or beside the TV. When installing optional equipment, leave some space between the optional equipment and the TV.• When changing channels, turn off any equipment connected to the video input jack on the rear of the TV.• Broadcast signals are too strong. Turn off or disconnect the booster if it is in use.
Double images or ghosting	<ul style="list-style-type: none">• Check antenna/cable connections.• Check the antenna location and direction. Contact a Sony dealer for advice.• Set Image Shift to an appropriate value. The default setting is Auto. If doubled images appear with Auto, select the best value from 1 to 4 (see page 40).• Broadcast signals are reflected by nearby mountains or building. Use the fine tuning (“Fine”) function (page 35). Otherwise, use a highly direction antenna.• Use of a booster is inappropriate. Turn off or disconnect the booster if it is in use.
Snowy picture and noisy sound	<ul style="list-style-type: none">• The antenna connection is loose or the antenna cable is damaged. Check the cable and connection on the TV, VCR, and on the wall (page 14).• Channel presetting is inappropriate or incomplete. Perform “Manual Program” in the “Program” menu to preset the channel again (page 35).• The antenna type is inappropriate. Check the antenna type (VHF/UHF). Contact a Sony dealer for advice.• The antenna direction needs adjustment. Adjust the antenna direction. Contact a Sony dealer for advice.• Signal transmission is low. Try using a booster.

Problem	Cause/Remedy
Only snow and noise appear on the screen	<ul style="list-style-type: none"> • Check if the antenna is broken or bent. • Check if the antenna has reached the end of its serviceable life (three to five years in normal use, one to two years at the seaside).
Picture noise (dotted lines or stripes)	<ul style="list-style-type: none"> • Keep the TV away from electrical noise sources such as cars, motorcycles, or hair-dryers, etc. • Make sure that the antenna is connected using the antenna cable (not supplied). • Keep the antenna cable away from other connecting cables. • Do not use a 300-ohm twin lead cable as interference may occur. • Adjust the antenna direction for the minimum interference. Contact a Sony dealer for advice.
Picture noise when viewing a TV channel	<ul style="list-style-type: none"> • Select “Manual Program” in the “Program” menu and adjust “Fine” to obtain better picture reception (page 35). • Select “Noise Reduction” in the “Picture” menu to reduce the noise in the picture (page 29).
Stripe noise during playback/recording of a VCR	<ul style="list-style-type: none"> • Video head interference. Keep your VCR away from the TV. • Leave a space of 30 cm between your VCR and the TV to avoid noise. • Avoid installing your VCR in front of the TV or beside the TV.
Good picture, but noisy sound	<ul style="list-style-type: none"> • The TV system setting is inappropriate. If the sound of all the channels are noisy, perform “Auto Program” in the “Program” menu to preset the channel again (page 35). If the sound of some channels is noisy, select the channel, then perform “Manual Program” in the “Program” menu, and select the appropriate TV system (“TV System”) (page 35).
Good picture, but no sound	<ul style="list-style-type: none"> • The volume level is too low. Press \triangleleft + to increase the volume level. • The sound is muted. Press MUTE, or \triangleleft + to cancel the muting. Set “Speaker” to “On” in the “Sound” menu (page 32). • The broadcast signal has a transmission problem. Press A/B until a better sound is heard. • “Speaker” is set to “Off”. Set to “On” in the “Sound” menu (page 32). • “Mono” is selected. Set to “Auto” by pressing A/B (page 19).
Some tiny black points and/or bright points on the screen	<ul style="list-style-type: none"> • The picture of a display unit is composed of pixels. Tiny black points and/or bright points (pixels) on the screen do not indicate a malfunction.
No color on programs	<ul style="list-style-type: none"> • Select “Reset” in the “Picture” menu to return to the factory settings (page 28).
No color	<ul style="list-style-type: none"> • The color intensity setting is too low. Select “Color” in the “Picture” menu to adjust the color intensity (page 29). • The color system setting is inappropriate. Select “Color System” in the “Setup” menu to select a correct color system (page 40). Usually set this to “Auto”. • The antenna direction needs adjustment. Adjust the antenna direction. Contact a Sony dealer for advice.
Lines moving across the TV screen	<ul style="list-style-type: none"> • There is interference from external sources, e.g., heavy machineries, broadcast station nearby. Use the fine tuning (“Fine”) function (page 35).

Problem	Cause/Remedy
No color or irregular color when viewing a signal from the Y, Pb/Cb, Pr/Cr jacks of 1, 2	<ul style="list-style-type: none"> • Check the connection of the Y, Pb/Cb, Pr/Cr jacks of 1, 2. • Make sure that the Y, Pb/Cb, Pr/Cr plugs of 1, 2 are firmly seated in their respective jacks.
When displaying the Twin Picture, the quality of the sub screen picture is not as good as that of the main screen picture	<ul style="list-style-type: none"> • The quality of the sub screen picture may be deteriorated depending on the combination of the input signals.

Sound

Problem	Cause/Remedy
No sound, but good picture	<ul style="list-style-type: none"> • Press \triangleleft +/- or Mute (Mute). • Check that "Speaker" is set to "On" in the "Sound" menu (page 32).
Noisy sound	<ul style="list-style-type: none"> • See the "Picture noise (dotted lines or stripes)" cause/remedy on page 53.
Low sound volume	<ul style="list-style-type: none"> • "Mono" is selected. Set to "Auto" by pressing A/B (page 19).
No stereo broadcast signal is received	<ul style="list-style-type: none"> • The stereo reception setting is inappropriate. Press A/B until "Auto" appears on the screen (page 19).
Stereo broadcast sound switches on and off, or is distorted; The sound switches between stereo and monaural frequently	<ul style="list-style-type: none"> • The antenna connection is loose or the antenna cable is damaged. Check the cable and connection on the TV, VCR, and on the wall (page 14). • Adjust the antenna direction for the minimum interference. Contact a Sony dealer for advice. • Signal transmission is low. Try using a booster. Otherwise, use the fine tuning ("Fine") function (page 35). • The broadcast signal has a transmission problem. Press A/B until a better sound is heard (page 19).
No sound from the computer	<ul style="list-style-type: none"> • Check the connection of the audio cable (page 42).

General

Problem	Cause/Remedy
The TV turns off automatically (the TV enters standby mode)	<ul style="list-style-type: none"> • Check to see if the Sleep Timer function is activated (page 41). • If the inside of TV becomes too warm, the TV automatically switches to standby mode.
Some input sources cannot be selected	<ul style="list-style-type: none"> • Select "Video Label" in the "Setup" menu and cancel "Skip" of the input source (page 39).
No picture but "PC" indication appears when the TV is turned on.	<ul style="list-style-type: none"> • The TV was set to the standby mode by the Power Management function (page 39). Select a channel.

Problem	Cause/Remedy
The remote does not function	<ul style="list-style-type: none"> • Check that the remote is set correctly for the equipment you are using (VCR, TV, or DVD). • If the remote does not operate the VCR or DVD even when the remote has been set correctly to VCR or DVD, enter the necessary code set as explained in “Programming the remote” (page 45). • Replace the batteries. • If the “High Temperature Warning!” message appears, turn off the TV and wait until the TV’s projection lamp cools down (approximately 5 minutes). If the remote control still does not work, make sure to dust the ventilation slots on the rear of the TV and the cooling fan to provide adequate ventilation around the TV.
The LAMP indicator blinks in red	<ul style="list-style-type: none"> • Replace the lamp (see page 48).
The TV does not turn on	<ul style="list-style-type: none"> • The TV cools down its projection lamp when the power is turned off. It takes up to two minutes for the picture to come back after the TV is turned on again. Wait for a while until the picture comes back.
The wide screen mode changes spontaneously when “Auto Wide” is “On”	<ul style="list-style-type: none"> • During a transition between two programs, the TV detects the optimum wide screen mode. During this period, an irregular wide screen mode may appear. • The wide mode is switched automatically according to the revised signal with a Wide ID signal. • The Auto Wide feature stops working temporarily when you press [[[, and resumes after a while. To fix in the manually selected wide screen mode, set “Auto Wide” to “Off” in the “Screen” menu (page 33).
“100” appears at the top of the screen after approximately 10 seconds and there is no teletext display	<ul style="list-style-type: none"> • The channel carries no Teletext broadcast.
Teletext display is incomplete (snowy picture or double images)	<ul style="list-style-type: none"> • Your area may not be able to receive Teletext. Teletext is displayed only in the area that is covered by Teletext services. • The antenna connection is loose or the antenna cable is damaged. Check the cable and connection on the TV, VCR, and on the wall (page 14). • The antenna direction needs adjustment. Adjust the antenna direction. Contact a Sony dealer for advice. • Signal transmission is too low. Try using a booster. Otherwise, use the fine tuning (“Fine”) function (page 35).
Cannot play shooting games	<ul style="list-style-type: none"> • Some shooting games which involve pointing a light beam at the TV screen with an electronic gun or rifle cannot be used with your TV. For details, see the instruction manual supplied with the video game software.
The TV cabinet creaks	<ul style="list-style-type: none"> • Changes in room temperature sometimes make the TV cabinet expand or contract, causing a noise. This does not indicate a malfunction.
Static discharge is felt when touching the TV cabinet	<ul style="list-style-type: none"> • This is the same static discharge that is felt when touching metal door handles or car doors especially when the air is dry, for example in winter. This does not indicate a malfunction.

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Printed in Thailand